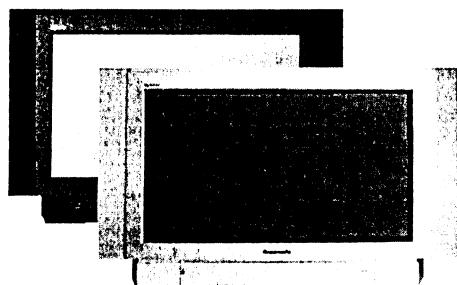


Service Manual



Colour Television

**TX-32PS11D, TX-32PS11D/B,
TX-32PS11F, TX-32PS11P,
TX-29PS11D, TX-29PS11D/B,
TX-29PS11F, TX-29PS11P,
TX-28PS11D, TX-28PS11F**

GP2 Chassis

SPECIFICATIONS

(Information in brackets [] refers to models 29)
(Information in brackets { } refers to models 28)

Power Source:	220-240V a.c., 50Hz
Power Consumption:	101W [101W] {96W}
Stand-by Power Consumption:	0.9W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL-I, B/G, D/K, PAL-525/60 SECAM B/G, D/K, L/L' M.NTSC (AV only) NTSC (AV only)
Receiving Channels:	VHF E2-E12 VHF H1-H2 (ITALY) VHF A-H (ITALY) VHF R1-R2 VHF R3-R5 VHF R6-R12 UHF E21-E69 CATV (S01-S05) CATV S1-S10 (M1-M10) CATV S11-S20 (U1-U10) CATV S21-S41 (HYPERBAND)

Intermediate Frequency:

Video/Audio	
Video	38,9MHz, 33,9MHz
Sound	33,4MHz (B/G), 33,16MHz (A2) 33,05MHz (NICAM B/G,D/K,L) 32,4MHz (D/K),32,66MHz (CZ STEREO)
Colour	40,4MHz (L'), 39,75MHz (L'NICAM) 34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM) 38,3MHz, 38,15MHz (SECAM L')

Terminals:

AUDIO MONITOR OUT	Audio (RCAx2) 500mV rms 1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin) 0,7V p-p 75Ω
AV1 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ

AV2 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ
AV2 OUT	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV3 IN	S-Video IN Y: 1V p-p 75Ω (21-pin) C:0,3V p-p 75Ω
AV3 OUT	Video (RCAx1) 1V p-p 75Ω
High Voltage:	32kV ± 1kV [31kV ± 1kV] {30,5kV ± 1kV}
Picture Tube:	W76EKX50X71 76cm [A68ELO50X71 68cm] {W66EKT50X71 66cm}
Audio Output:	2x10W RMS, 2x20W MPO, 8Ω impedance
Headphones:	8Ω impedance
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries
Dimensions:	
Height:	567mm [585mm] {510mm}
Width:	902mm [776mm] {805mm}
Depth:	551mm [533mm] {533mm}
Net weight:	55,5kg [49,5kg] {43,3kg}

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

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SAFETY PRECAUTION

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 33kV [32kV] {31.5kV} are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

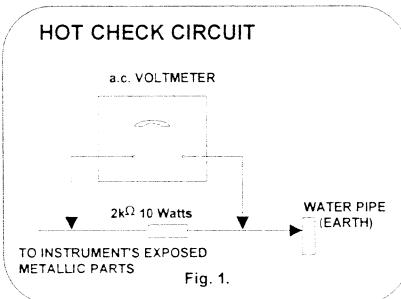
LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a $2k\Omega$ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.

4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the previous measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.



X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 33kV [32kV] {31.5kV} without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate: $32kV \pm 1kV$ [31.5kV $\pm 1kV$] {30.5kV $\pm 1kV$ }. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 12 [11] screws as shown in Fig. 2.

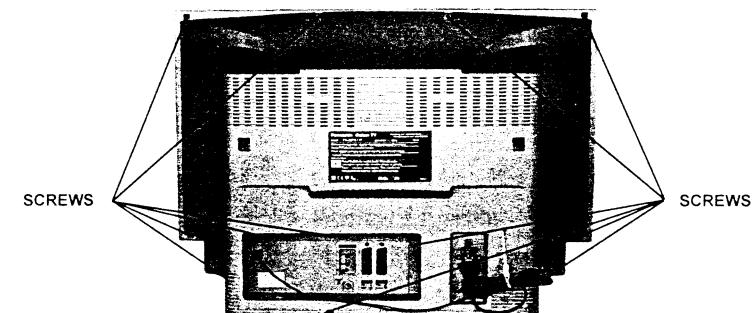
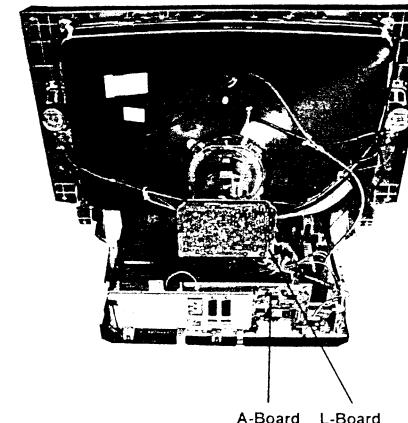
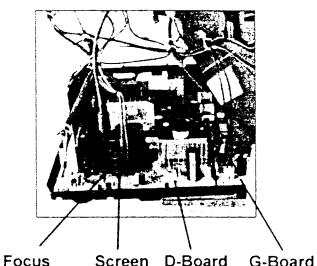


Fig. 2

LOCATION OF CONTROLS



A-Board L-Board



Focus Screen D-Board G-Board

Fig. 3

ADJUSTMENT PROCEDURE

Item / Preparation		Adjustments					
+B SET-UP		Confirm the following voltages					
1. Receive a Window pattern.		TPD1 205 ± 10V D9 pin3 9 ± 0.5V					
2. Set the controls :		TPD2 137 ± 2V D9 pin7 10.5 ± 0.5V					
Brightness	Minimum	TPD3 42 ± 2V D2 pin22 3.3 ± 0.1V					
Contrast	Minimum	TPD5 42 ± 2V D2 pin26 2.5 ± 0.1V					
Volume	Minimum	TPD6 12.5 ± 1V D2 pin14 3.3 ± 0.1V					
		TPD7 -12.5 ± 1V D9 pin5 5 ± 0.5V					
		TPD8 33 ± 2V D9 pin11 6.5 ± 0.5V					
		TPD11 5 ± 0.5V					
CUT OFF / Ug2 Test		To adjust Cutoff connect an oscilloscope to the Blue cathode. Adjust the screen VR until the black level is 160V +5V/-5V.					
1. Receive a Window pattern.							
2. Set Viewing Mode Normal							
3. Normalize the TV set.							
4. Set brightness Minimum							
							

SELF CHECK

Self-check is used to automatically check the bus lines and hexadecimal code of the TV set. To enter Self-Check mode, press the **STATUS +** button on the remote control and at the same time press the down (-v) button on the customer controls at the front the TV set. To exit Self Check, switch off the TV set at the power button.

E2	O.K.	SUM	***
DDP	O.K.		
VSP	O.K.		
VPCD	O.K.		
AVSW	O.K.		
TUN	O.K.		
MSP	O.K.		
DPL	--		
MAS	--		
TX-32PS11D	TX-32PS11F	TX-29PS11D	TX-29PS11F
TX-32PS11D/B	TX-32PS11P	TX-29PS11D/B	TX-29PS11P
TX-28PS11D	TX-28PS11F		
OPTION 1	0F	0F	0F
OPTION 2	00	00	00
OPTION 3	B0	B0	A0
OPTION 4	11	11	11
OPTION 5	00	00	00
OPTION 6	05	05	05
OPTION 7	7F	7F	7F
OPTION 8	D0	50	D0
OPTION 9	00	00	00
OPTION 10	80	80	80
OPTION 11	1B	1B	1B
OPTION 12	00	00	00
OPTION 13	0C	0C	0C
CHECK	CB	4B	BB
			3B

If the CCU ports have been checked and found to be incorrect or not located then " -- " will appear in place of "O.K".

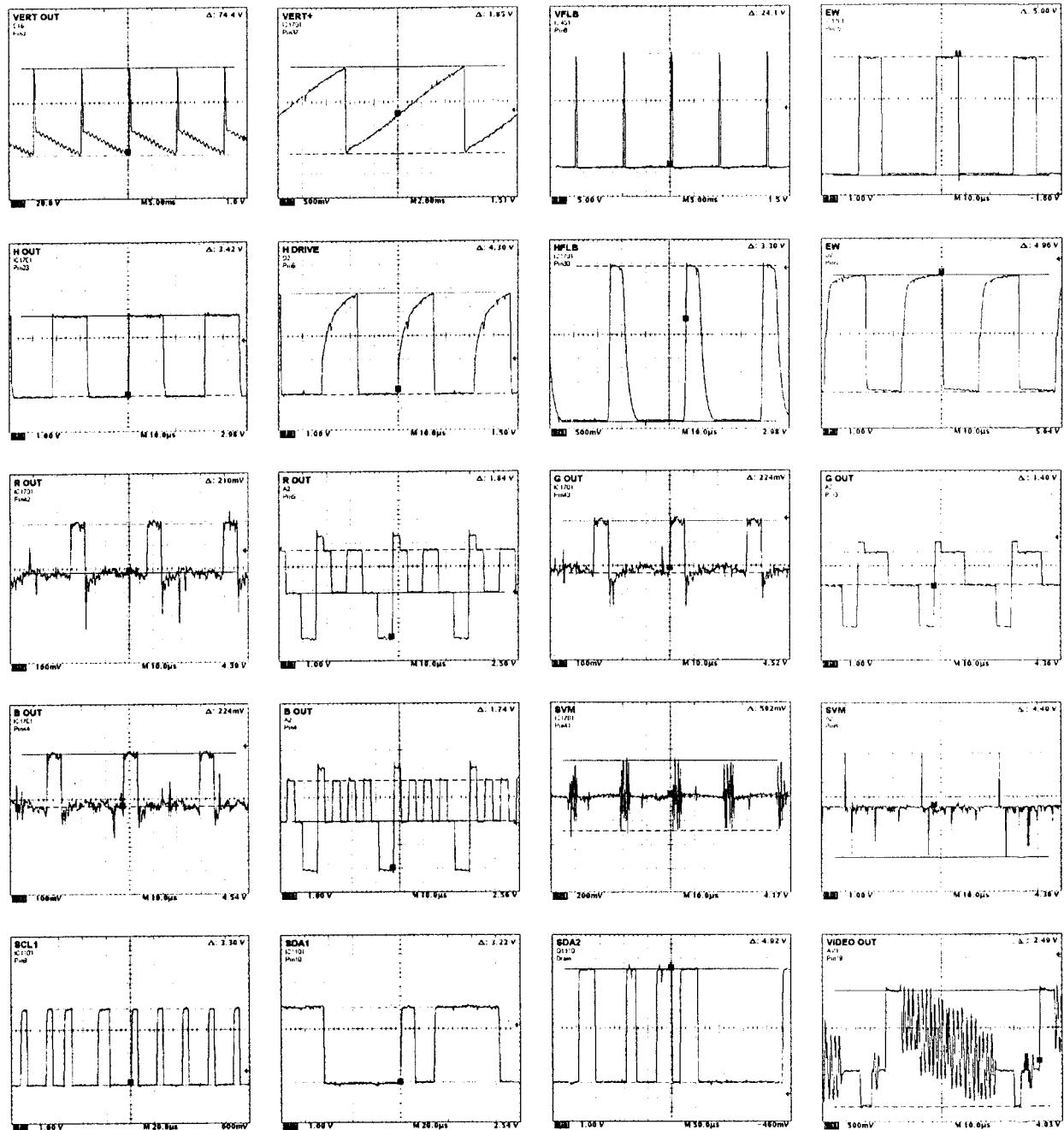
ALIGNMENT SETTINGS

(The figures below are nominal and used for representative purposes only.)

- Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (-v) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode 1.
- Press the **RED / GREEN** buttons to step up / down through the functions.
- Press the **YELLOW / BLUE** buttons to alter the function values.
- Press the **OK** button after each adjustment has been made to store the required values.
- To exit the Service Mode, press the "N" button.

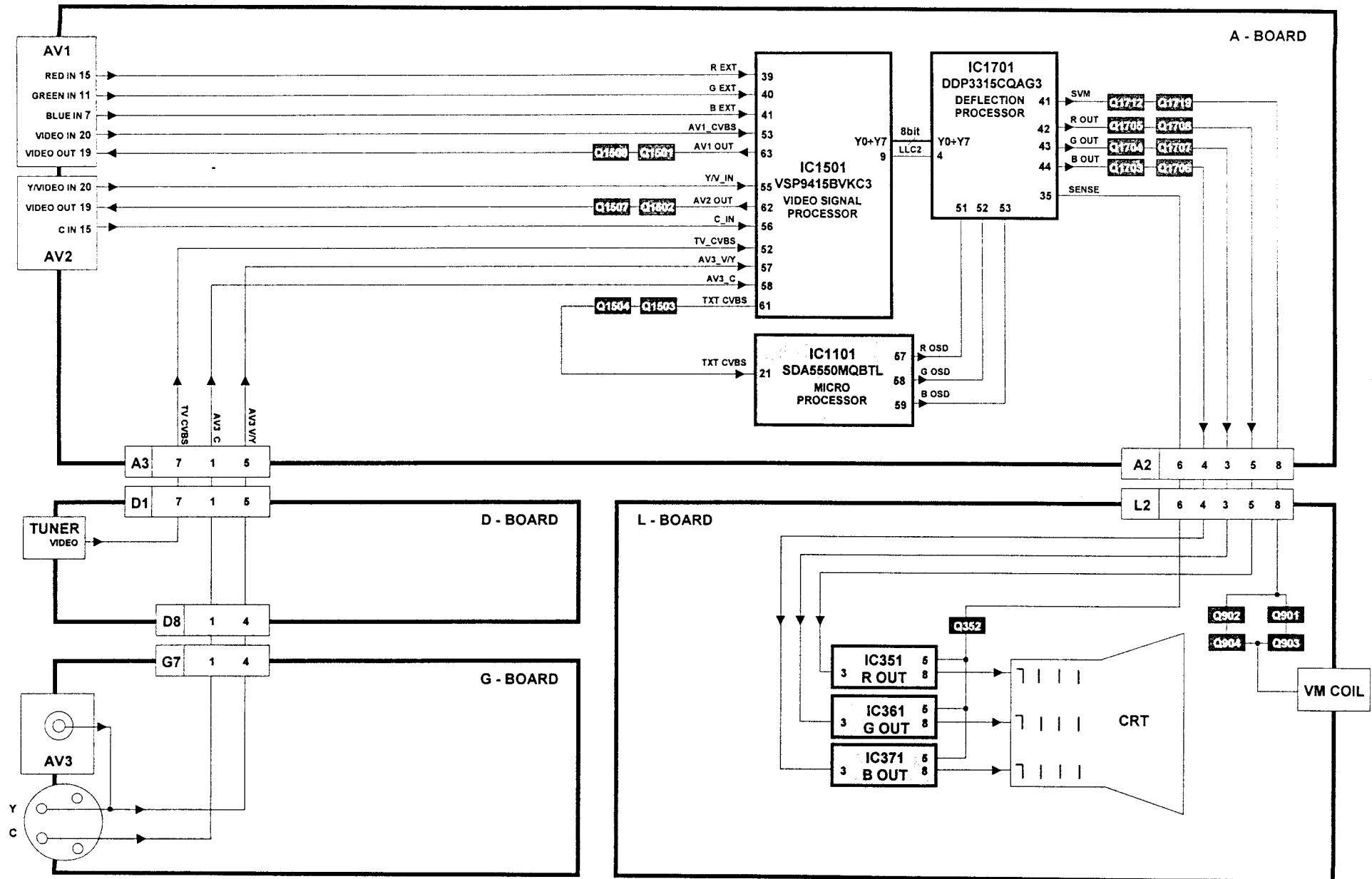
Alignment Function	Setting indication Note: All setting values are approximate.	Settings / Special features
Horizontal Position	H-Pos 40	Optimum setting.
Vertical Position	V-Pos 30	Optimum setting.
Horizontal Amplitude	H-Amp 2	Optimum setting.
Vert. Amplitude	V-Amp -33	Optimum setting.
EW-amplitude	EW-Amp 1 -36	Optimum setting.
Lower Corner	Lower Corner 1	Optimum setting.
Trapezium-comp	Trapez 1 -5	Optimum setting.
Upper Corner	Upper Corner 1	Optimum setting.
Vertical Linearity	V-Lin -5	Optimum setting.
Vertical Symmetry	V-Sym 38	Optimum setting.
Angle	Angle 0	Optimum setting.
Bow	Bow 0	Optimum setting.
DVCO	DVCO 0	Receive a PAL Colour Bar Pattern. For DVCO alignment press "Blue" button, wait until the figure colour is changed from red to black colour.
Highlight Lowlight	High 0403 0318 0350 Low 0130 0150 0160	Optimum setting.
Sub-Brightness	Sub-Brightness 13	Optimum setting.

WAVEFORM PATTERN TABLE

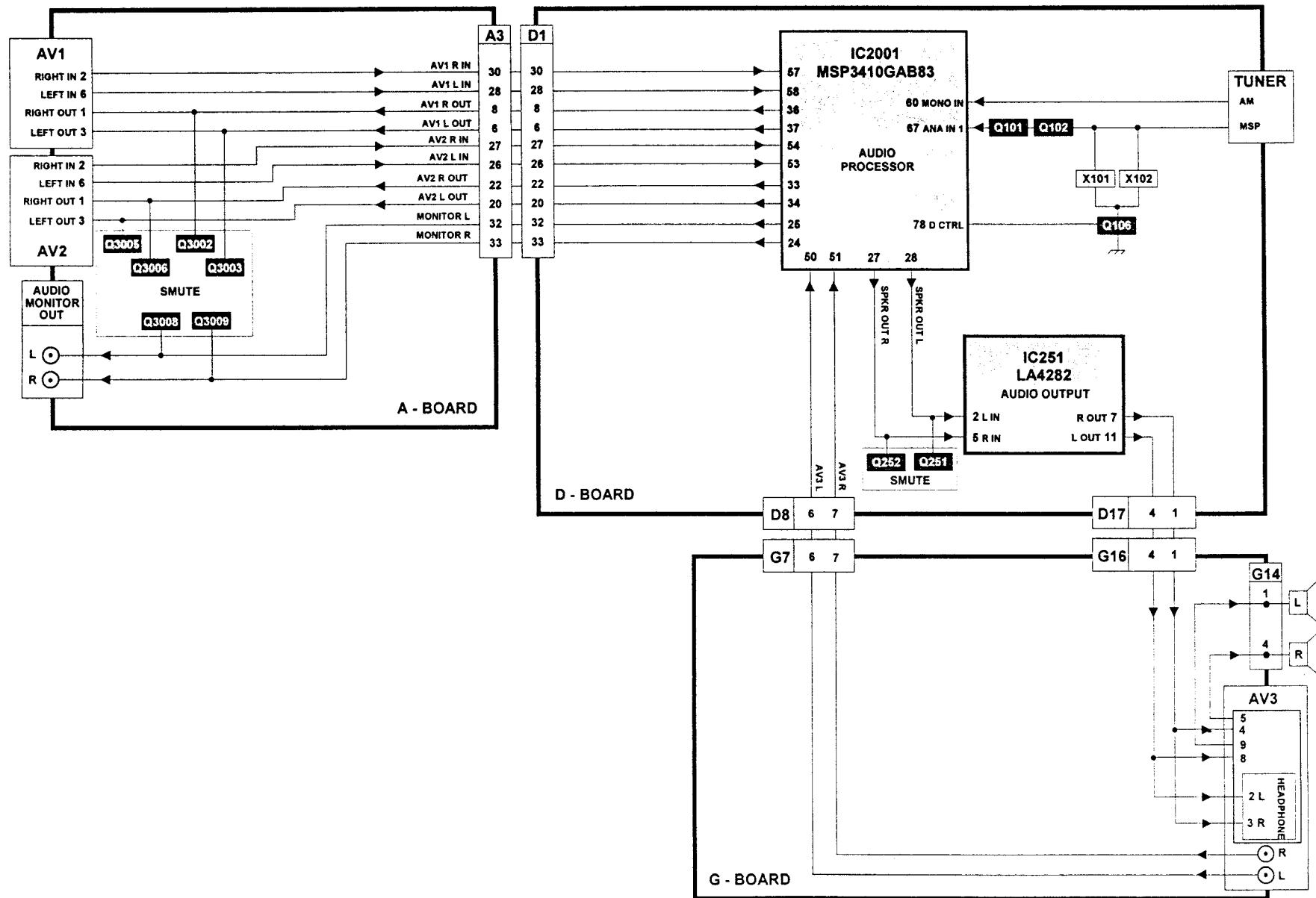


CONDITIONS: CONTRAST...MAX, BRIGHTNESS...MID, COLOUR...MID, SHARPNESS...MID

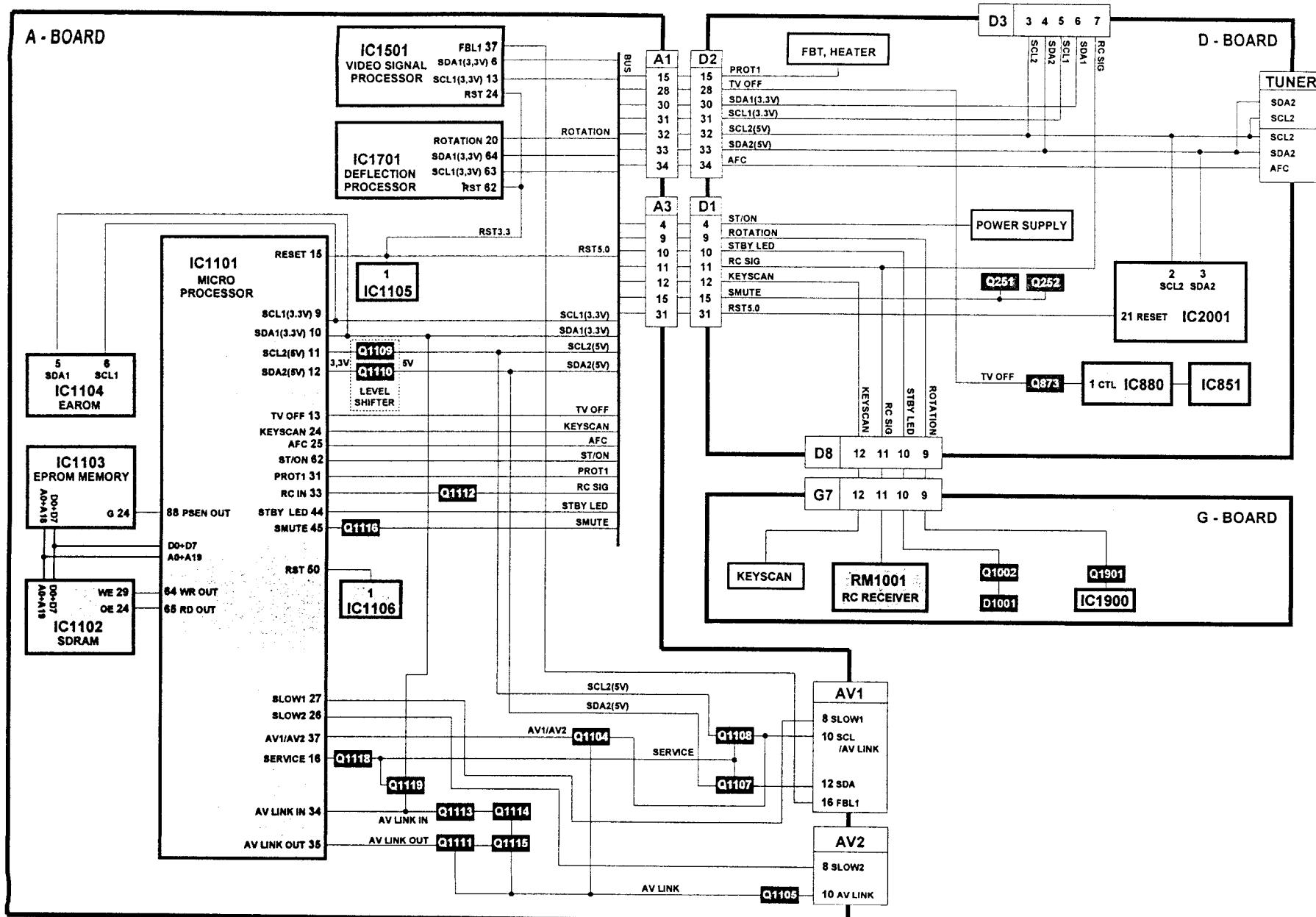
VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM

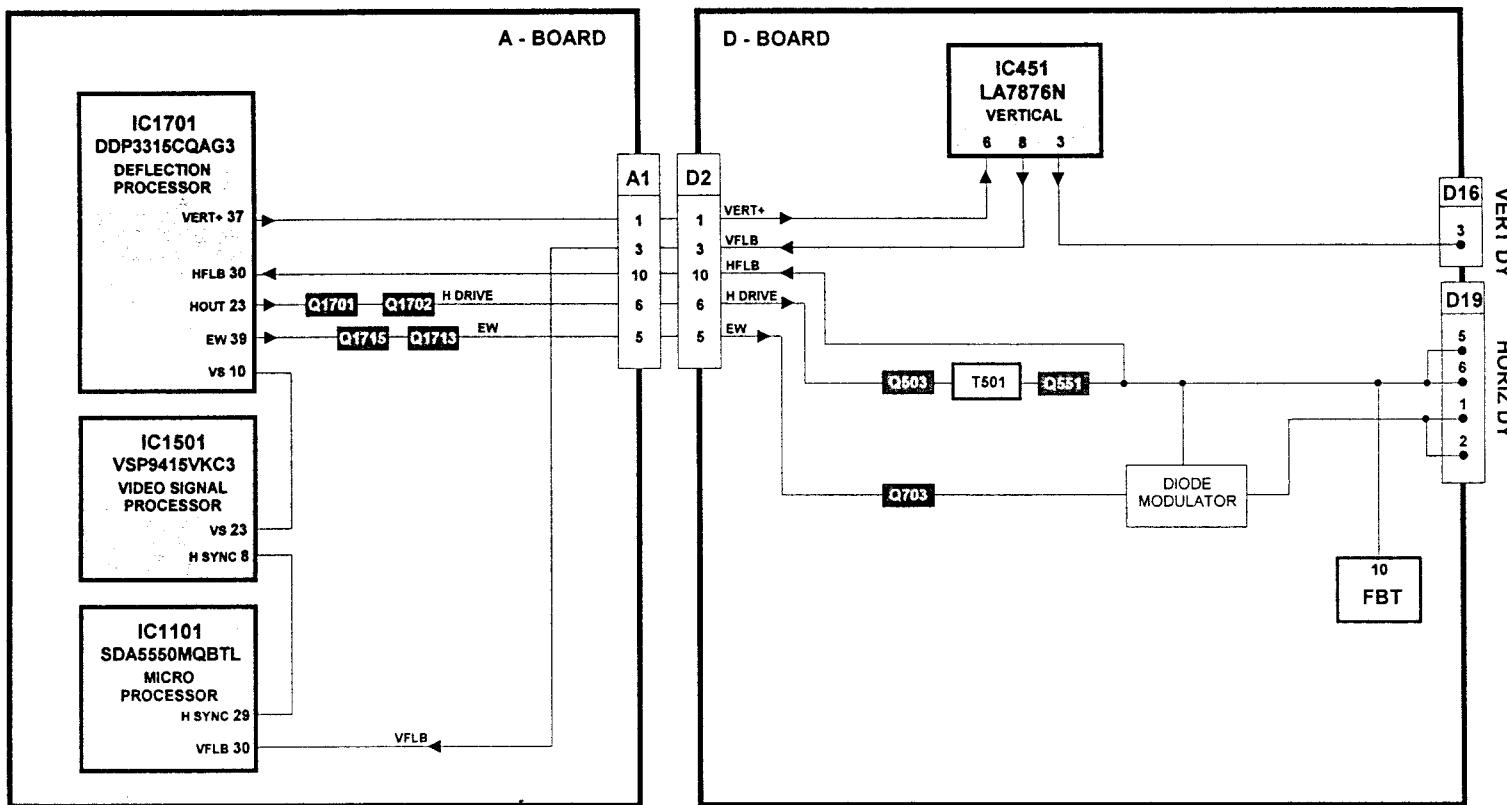


CONTROL BLOCK DIAGRAM

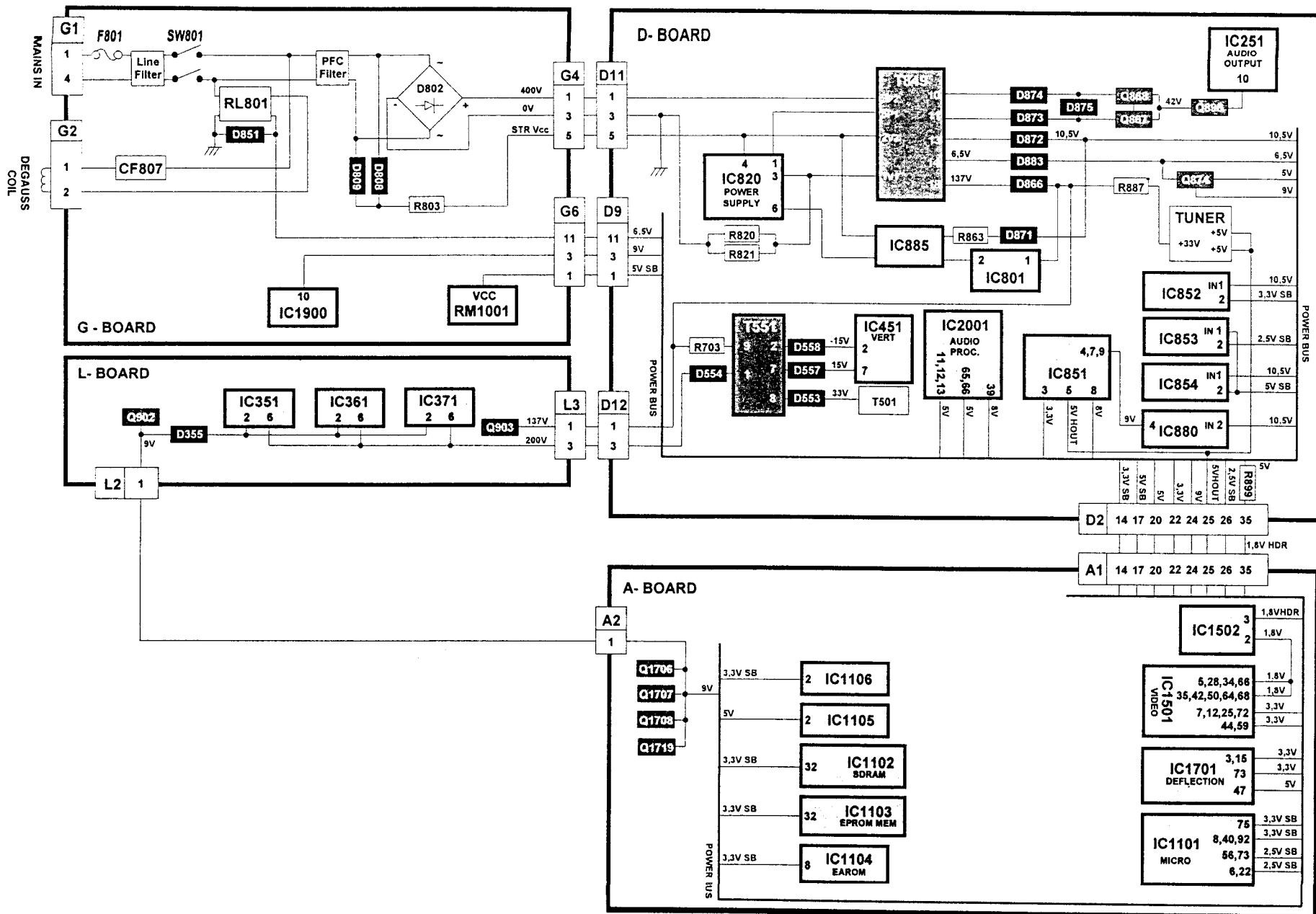


DEFLECTION BLOCK DIAGRAM

10

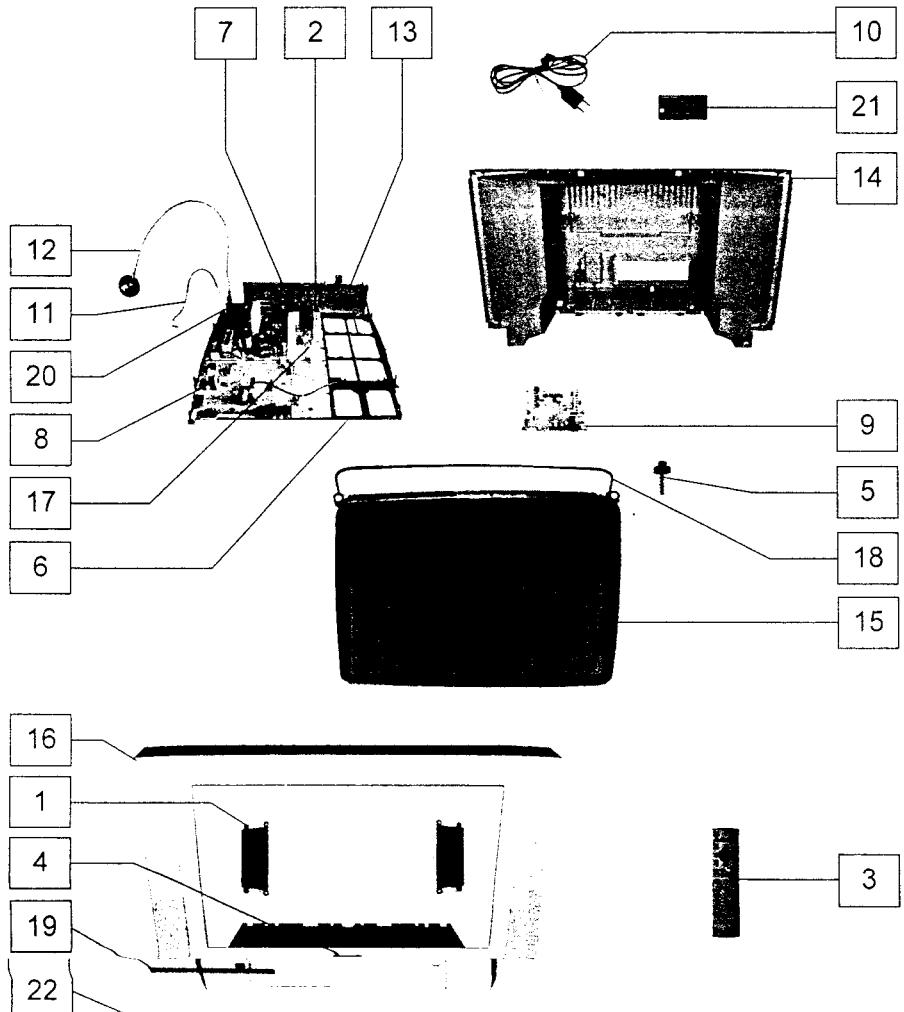


POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION

NOTE:
The numbers on the exploded view below
refer to the exploded view section of the
Replacement Parts List



REPLACEMENT PARTS LIST

Important Safety Notice

Components identified by mark have special characteristics important for safety.
• When replacing any of these components, use only manufacturers specified parts.
In case of ordering these spare parts, please always add the complete Model-Type number to your order.

CCT REF PARTS NUMBER DESCRIPTION

COMMON PARTS

EXPLODED VIEW

1	EASG12S500C2	SPEAKER
2	ENG29525G	TUNER
3	EUR7628010	REMOTE CONTROL
4	TBMA060	PANASONIC BADGE
5	THT1062	CRT FIXING SCREW
6	TMX0E404-1	CHASSIS FRAME
7	TNP8EA021AN	A P.C.B.
8	TNP8EG020AD	G P.C.B.
9	TNP8EL021AD	L P.C.B.
10	TXASX01DBYG1	AC CORD
11	TXJ/FC0DEG1	FOCUS LEAD ASSY
12	ZTBZAD550A	ANODE LEAD

CCT REF	PARTS NUMBER	DESCRIPTION
IC1502	LD1117S18TR	REGULATOR
IC1701	DDP3315COAG3	DEFLECTION PROCESSOR
IC1900	LA6515	EARTH CORRECTION
IC2001	MSP3410GAB83	AUDIO PROCESSOR
RM1001	RPM-6937	LED RECEIVER

FUSES
F801-L
F801-R
F801
F870
F871

DIODES
CF807
D101
D102
D251
D252
D351
D354
D355
D361
D371
D454
D457
D458
D501
D502
D503
D504
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D580
D706
D707
D710
D711
D712
D713
D714

MISCELLANEOUS COMPONENTS

R6RC/2P	BATTERY	
TBLG3019	SET FOOT (FRONT)	
TBLG3020	SET FOOT (REAR)	
TBMOE0033	PRESET LABEL	
TBMOE0034	PRESET LABEL	
TEK6835	LID SWITCH	
TKK0E9507	CRT SUPPORT BRACKET R	
TKK0E9508	CRT SUPPORT BRACKET L	
TKP0E10701	IR WINDOW	
TLK8E05196	ROTATION COIL	
TMW8E050-2	LED HOLDER	
CKN2	SPACER	
IC251	LA4282	AUDIO OUTPUT
IC351	TDA6111Q/N4	RGB OUTPUT
IC361	TDA6111Q/N4	RGB OUTPUT
IC371	TDA6111Q/N4	RGB OUTPUT
IC451	LA7875N	VERTICAL OUTPUT
IC601	SE130N	ERROR AMPLIFIER
IC820	STRW6754LF06	POWER SUPPLY
IC851	CODAFKE00001	REGULATOR
IC852	TA48M033F	REGULATOR
IC853	TA48025F	REGULATOR
IC854	TA4805SLBS1	REGULATOR
IC880	BA09ST-V5	REGULATOR
IC1101	SDA5550MBT	MICRO PROCESSOR
IC1102	K6X4008T1FV7	SRAM
IC1105	MN1381TU	RESET
IC1106	MN1381JU	RESET
IC1501	VSP9415BVKC3	VIDEO PROCESSOR

Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description
D717	MA4022LTA	DIODE	Q352	BC857B	TRANSISTOR	Q2006	BC857B	TRANSISTOR	RESISTORS		
D802	RBV-43LF-B	DIODE	Q503	2SD1223TE16L	TRANSISTOR	Q3002	BC847B	TRANSISTOR	JA1	ERJ5GEY0R00V	S.M.CARB 0.1W 0Ω
D803	BZX75B75A26A	DIODE	Q551	2SC5905000RK	TRANSISTOR	Q3003	BC847B	TRANSISTOR	JA1	ERJ8GEY0R00V	S.M.CARB 0.125Ω 0Ω
D804	BZX79B75A26A	DIODE	Q552	2SC1473ATA	TRANSISTOR	Q3005	BC847B	TRANSISTOR	JA2	ERJ6GEY0R00V	S.M.CARB 0.1W 0Ω
D808	AU02AV0	DIODE	Q556	BC847B	TRANSISTOR	Q3006	BC847B	TRANSISTOR	JA4	ERJ6GEY0R00V	S.M.CARB 0.1W 0Ω
D809	AU02AV0	DIODE	Q701	BC847B	TRANSISTOR	Q3008	BC847B	TRANSISTOR	JA7	ERJ8GEY0R00V	S.M.CARB 0.125Ω 0Ω
D820	MTZJT-776.8B	DIODE	Q702	BC847B	TRANSISTOR	Q3009	BC847B	TRANSISTOR	JA14	ERJ8GEY0R00V	S.M.CARB 0.125Ω 0Ω
D822	SARS01V1	DIODE	Q703	2SK2231TE16L	TRANSISTOR	TRANSFORMERS			JA15	ERJ8GEY0R00V	S.M.CARB 0.125Ω 0Ω
D823	1SR124-4AT82	DIODE	Q704	BC847B	TRANSISTOR	T501	ETH19Y212AZ	TRANSFORMER	JA20	ERJ8GEY0R00V	S.M.CARB 0.125Ω 0Ω
D824	1SR124-4AT82	DIODE	Q705	BC547B/126	TRANSISTOR	T849	45T-2029	TRANSFORMER	JA27	ERJ8GEY0R00V	S.M.CARB 0.125Ω 0Ω
D825	1SS133T-77	DIODE	Q706	BC847B	TRANSISTOR	COILS			JA32	ERJ6GEY0R00V	S.M.CARB 0.1W 0Ω
D851	1SS133T-77	DIODE	Q707	2SA1018QTA	TRANSISTOR	J54	EXCELSA35T	COIL	R111	ERJ6GEYJ393V	S.M.CARB 0.1W 5% 39KΩ
D865	RU2BLCF4	DIODE	Q850	BC847B	TRANSISTOR	L103	EXCELSA35B	COIL	R112	ERJ6GEYJ101V	S.M.CARB 0.1W 5% 100Ω
D866	RU4BLF-L1	DIODE	Q852	BC847B	TRANSISTOR	L104	EXCELDR35V	COIL	R113	ERJ6GEYJ223V	S.M.CARB 0.1W 5% 22KΩ
D867	1SR124-4AT82	DIODE	Q865	2SA1668LF603	TRANSISTOR	L107	TALV35VB100K	COIL	R114	ERJ6GEYJ471V	S.M.CARB 0.1W 5% 47Ω
D868	MTZJT-773.3B	DIODE	Q866	MPSA42/RA	TRANSISTOR	L109	ELJFC4R7KF	COIL	R115	ERJ6GEYJ102V	S.M.CARB 0.1W 5% 1KΩ
D869	MTZJT-775.1B	DIODE	Q867	2SA1534A-RTA	TRANSISTOR	L115	ELESN6R8KA	COIL	R116	ERJ6GEYJ101V	S.M.CARB 0.1W 5% 100Ω
D870	1SS133T-77	DIODE	Q868	BC557B/126	TRANSISTOR	L582	ELC18B221L	COIL	R117	ERJ6GEYJ332V	S.M.CARB 0.1W 5% 3K3Ω
D871	1SR124-4AT82	DIODE	Q870	BC847B	TRANSISTOR	L701	ELC18B181F	COIL	R118	ERJ6GEYJ681V	S.M.CARB 0.1W 5% 68Ω
D872	RK46LF-M1	DIODE	Q871	BC857B	TRANSISTOR	L704	ELC18B182F	COIL	R120	ERJ6GEYJ222V	S.M.CARB 0.1W 5% 2K2Ω
D873	FMGG2S5	DIODE	Q873	BC847B	TRANSISTOR	L804	R33264	PFC COIL	R121	ERJ5GEYJ103V	S.M.CARB 0.1W 5% 10KΩ
D874	1SR124-4AT82	DIODE	Q874	2SD2396/K	TRANSISTOR	L865	EXCELSA35T	COIL	R122	ERJ6GEYJ331V	S.M.CARB 0.1W 5% 330Ω
D875	MTZJT-772A	DIODE	Q896	2SK2231TE16L	TRANSISTOR	L866	EXCELSA35T	COIL	R129	ERJ6GEYJ101V	S.M.CARB 0.1W 5% 100Ω
D877	1SS133T-77	DIODE	Q898	BC847B	TRANSISTOR	L867	ELEKE470KA	COIL	R133	ERJ6GEYJ222V	S.M.CARB 0.1W 5% 2K2Ω
D878	1SS133T-77	DIODE	Q901	BC857B	TRANSISTOR	L1061	TLT331K991R	COIL	R134	ERJ6GEYJ101V	S.M.CARB 0.1W 5% 100Ω
D880	1SS133T-77	DIODE	Q902	BC847B	TRANSISTOR	L870	EXCELSA35T	COIL	R135	ERJ6GEYJ101V	S.M.CARB 0.1W 5% 100Ω
D881	MTZJT-7736A	DIODE	Q903	2SA1535ARLB	TRANSISTOR	L871	EXCELSA35T	COIL	R137	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0Ω
D883	RK46LF-M1	DIODE	Q904	2SC3944ARLB	TRANSISTOR	L872	EXCELSA35T	COIL	R139	ERJ6GEYJ101V	S.M.CARB 0.1W 5% 100Ω
D887	1SR124-4AT82	DIODE	Q1002	BC847B	TRANSISTOR	L873	EXCELSA35T	COIL	R140	ERJ6GEYJ101V	S.M.CARB 0.1W 5% 100Ω
D888	1SS133T-77	DIODE	Q1103	BC847B	TRANSISTOR	L874	EXCELSA35T	COIL	R142	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0Ω
D889	1SR124-4AT82	DIODE	Q1104	BC847B	TRANSISTOR	L1061	TLT331K991R	COIL	R143	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0Ω
D890	1SS133T-77	DIODE	Q1105	BC847B	TRANSISTOR	L1101	TALV35VB8R2K	COIL	R147	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0Ω
D891	1SS133T-77	DIODE	Q1106	BC847B	TRANSISTOR	L1103	ELESN4R7KA	COIL	R148	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0Ω
D892	1SS133T-77	DIODE	Q1107	BC847B	TRANSISTOR	L1104	ELESN4R7KA	COIL	R250	ERJ6GEYJ103V	S.M.CARB 0.1W 5% 10KΩ
D893	BZX79B75A26A	DIODE	Q1108	BC847B	TRANSISTOR	L1501	ELESN4R7KA	COIL	R251	ERJ6GEYJ471V	S.M.CARB 0.1W 5% 47Ω
D894	MTZJT-7722C	DIODE	Q1109	2N7002	TRANSISTOR	L1502	ELESN4R7KA	COIL	R252	ERJ6GEYJ103V	S.M.CARB 0.1W 5% 10KΩ
D895	MTZJT-775.1B	DIODE	Q1110	2N7002	TRANSISTOR	L1503	ELJFC2R2KF	COIL	R253	ERJ6GEYJ471V	S.M.CARB 0.1W 5% 47Ω
D896	1SS133T-77	DIODE	Q1111	BC847B	TRANSISTOR	L1701	EXC3BB221H	COIL	R254	ERJ6GEYJ103V	S.M.CARB 0.1W 5% 10KΩ
D898	MTZJT-7720B	DIODE	Q1112	BC847B	TRANSISTOR	L2001	TALV35VB100K	COIL	R255	ERJ6GEYJ104V	S.M.CARB 0.1W 5% 100KΩ
D1001	LNH201RFCF6	L.E.D.	Q1113	BC847B	TRANSISTOR	L2004	ELESN101KA	COIL	R256	ERJ6GEYJ104V	S.M.CARB 0.1W 5% 100KΩ
D1004	MTZJT-778.2C	DIODE	Q1114	BC847B	TRANSISTOR	L2005	TALV35VB100K	COIL	R257	ERJ6GEYJ150V	S.M.CARB 0.125% 15Ω
D1102	1SS355TE-17	DIODE	Q1115	BC847B	TRANSISTOR	L2006	ELJFC4R7KF	COIL	R258	ERJ6GEYJ150V	S.M.CARB 0.125% 15Ω
D1104	1SS355TE-17	DIODE	Q1116	BC857B	TRANSISTOR	L2007	ELJFC4R7KF	COIL	R259	ERJ6GEYJ121V	S.M.CARB 0.1W 5% 120Ω
D1105	1SS355TE-17	DIODE	Q1117	BC847B	TRANSISTOR	L2351	EXCELDR35V	COIL	R260	ERJ6GEYJ121V	S.M.CARB 0.1W 5% 120Ω
D1701	DAN217T148	DIODE	Q1118	BC847B	TRANSISTOR	L2352	EXCELDR35V	COIL	R261	ERJ6GEYJ152V	S.M.CARB 0.1W 5% 1K5Ω
D1702	DAN217T148	DIODE	Q1119	BC847B	TRANSISTOR	L3201	ELESN6R8KA	COIL	R262	ERJ6GEYJ152V	S.M.CARB 0.1W 5% 1K5Ω
D1703	1SS355TE-17	DIODE	Q1501	BC847B	TRANSISTOR	L3202	ELESN6R8KA	COIL	R263	ERDS2T2J2R2T	CARBON 0.25W 5% 2R2Ω
D1705	1SR124-4AT82	DIODE	Q1502	BC847B	TRANSISTOR	L3205	ELESN6R8KA	COIL	R264	ERDS2T2J2R2T	CARBON 0.25W 5% 2R2Ω
D2005	1SS133T-77	DIODE	Q1503	BC847B	TRANSISTOR	L3206	EXCELSA35T	COIL	R269	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0Ω
D2006	1SS133T-77	DIODE	Q1504	BC857B	TRANSISTOR	LF801	ELF21V012A	COIL	R350	ERQ12AJ151P	FUSIBLE 0.5W 5% 150Ω
D2007	1SS133T-77	DIODE	Q1507	BC857B	TRANSISTOR	DL1510	ELKE103FA	FILTER	R352	ERJ6GEYJ202V	S.M.CARB 0.1W 5% 2KΩ
D2008	1SS133T-77	DIODE	Q1508	BC857B	TRANSISTOR	DL1511	ELKE103FA	FILTER	R353	ERJ6GEYJ821V	S.M.CARB 0.1W 5% 820Ω
D2009	1SS133T-77	DIODE	Q1701	BC847B	TRANSISTOR	DL1512	ELKE103FA	FILTER	R354	ERJ6GEYJ102V	S.M.CARB 0.1W 5% 1KΩ
D2010	MTZJT-774.7C	DIODE	Q1702	BC847B	TRANSISTOR	DL1513	ELKE103FA	FILTER	R355	ERG1SJ823P	METAL 1W 5% 82KΩ
D3201	MTZJT-778.2C	DIODE	Q1703	BC847B	TRANSISTOR	DL1705	ELKE103FA	FILTER	R356	ERJ6GEYJ560V	S.M.CARB 0.1W 5% 56Ω
D3202	MTZJT-778.2C	DIODE	Q1704	BC847B	TRANSISTOR	DL1706	ELKE103FA	FILTER	R357	ERJ6GEYJ681V	S.M.CARB 0.1W 5% 680Ω
D3203	MTZJT-778.2C	DIODE	Q1705	BC847B	TRANSISTOR	DL1713	TLK212T256AL	FILTER	R358	ERDS1T1J821V	CARBON 0.5W 5% 820Ω
D3204	UDZSTE-1716B	DIODE	Q1706	FMY4AT148	TRANSISTOR	X101	EFCT6504BN	FILTER	R359	ERJ6GEYJ391V	S.M.CARB 0.1W 5% 390Ω
IC885	PC123FY2	PHOTO COUPLER	Q1707	FMY4AT148	TRANSISTOR	X102	EFCT7004BN	CERAMIC FILTER	R360	ERJ6GEYJ102V	S.M.CARB 0.1W 5% 1KΩ
TRANSISTORS			Q1708	FMY4AT148	TRANSISTOR	X103	EFCT7004BN	CERAMIC FILTER	R362	ERJ6GEYJ202V	S.M.CARB 0.1W 5% 2KΩ
Q101	BC847B	TRANSISTOR	Q1711	BC847B	TRANSISTOR	X104	EFCT7004BN	CERAMIC FILTER	R363	ERJ6GEYJ821V	S.M.CARB 0.1W 5% 820Ω
Q102	BC847B	TRANSISTOR	Q1712	BC847B	TRANSISTOR	X105	EFCT7004BN	CERAMIC FILTER	R364	ERJ6GEYJ102V	S.M.CARB 0.1W 5% 1KΩ
Q106	BC847B	TRANSISTOR	Q1713	BC847B	TRANSISTOR	X106	ERJ6GEYJ823P	METAL 1W 5% 82KΩ			
Q251	BC847B	TRANSISTOR	Q1715	BC847B	TRANSISTOR	X107	AI202504E	CRYSTAL	R366	ERJ6GEYJ560V	S.M.CARB 0.1W 5% 56Ω
Q252	BC847B	TRANSISTOR	Q1719	BC847B	TRANSISTOR	X108	4730007823	CRYSTAL	R368	ERDS1T1J821V	CARBON 0.5W 5% 820Ω
Q351	BC847B	TRANSISTOR	Q1901	BC847B	TRANSISTOR	X2001	4730007158	CRYSTAL	R370	ERQ1CJP1R2S	FUSIBLE 1W 5% 1.2Ω
CRYSTALS			X109	AI060006AD	CRYSTAL						
			X1501	AI202504E	CRYSTAL						
			X1701	4730007823	CRYSTAL						
			X2001	4730007158	CRYSTAL						

Cat Ref	Parts Number	Description	Cat Ref	Parts Number	Description	Cat Ref	Parts Number	Description	Cat Ref	Parts Number	Description								
R372	ERJ6GEYJ202V	S.M.CARB	0.1W 5%	2K Ω	R825	ERDS1TJ102T	CARBON	0.5W 5%	1K Ω	R1108	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1186	ERJ3GEYJ473V	S.M.CARB	0.1W 5%	47K Ω
R373	ERJ6GEYJ821V	S.M.CARB	0.1W 5%	820 Ω	R827	ERDS1TJ272T	CARBON	0.5W 5%	2K7 Ω	R1109	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1188	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R375	ERG1SJ82P3	METAL	1W 5%	82K Ω	R828	ERDS1TJ100T	CARBON	0.5W 5%	10 Ω	R1110	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1189	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R376	ERJ6GEYJ560V	S.M.CARB	0.1W 5%	56 Ω	R829	ERG2FJ470H	METAL	2W 5%	47 Ω	R1111	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1190	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R378	ERDS1TJ821V	CARBON	0.5W 5%	820 Ω	R830	ERDS1TJ684T	CARBON	0.5W 5%	680K Ω	R1114	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1191	ERJ3GEYJ223V	S.M.CARB	0.1W 5%	22K Ω
R380	ERJ6GEYJ392V	S.M.CARB	0.1W 5%	3K9 Ω	R831	ERD75TA825	CARBON	1W 5%	8MΩ △	R1115	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1192	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R381	ERJ6GEYJ102V	S.M.CARB	0.1W 5%	1K Ω	R852	ERG1S2J470P	METAL	0.5W 5%	47 Ω	R1116	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1193	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Ω
R451	ERJ6GEYJ223V	S.M.CARB	0.1W 5%	22K Ω	R853	ERJ6GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1117	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1194	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Ω
R454	ERJ6GEYJ273V	S.M.CARB	0.1W 5%	27K Ω	R854	ERJ6GEYJ203V	S.M.CARB	0.1W 5%	20K Ω	R1118	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1198	ERJ3GEYJ580V	S.M.CARB	0.1W 5%	68 Ω
R455	ERDS2TJ223T	CARBON	0.25W 5%	22K Ω	R860	ERJ6GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1120	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1199	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R458	ERDS1TJ1R0T	CARBON	0.5W 5%	1 Ω	R860	ERJ6GEYJ473V	S.M.CARB	0.1W 5%	47K Ω	R1123	ERJ3GEYJ473V	S.M.CARB	0.1W 5%	47K Ω	R1200	ERJ3GEYJ222V	S.M.CARB	0.1W 5%	2K2 Ω
R460	ERG3JS271H	METAL	3W 5%	270 Ω	R861	ERDS2TJ123T	CARBON	0.25W 5%	12K Ω	R1125	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1204	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R463	ERJ6GEYJ621V	S.M.CARB	0.125 5%	620 Ω	R862	ERDS2TJ162T	CARBON	0.25W 5%	1K8 Ω	R1126	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1206	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R464	ERJ6GEYJ512V	S.M.CARB	0.1W 5%	5K1 Ω	R863	ERDS2TJ102T	CARBON	0.25W 5%	1K Ω	R1127	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1207	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R465	ERJ6GEYJ821V	S.M.CARB	0.1W 5%	820 Ω	R864	ERDS2TJ472T	CARBON	0.25W 5%	4K7 Ω	R1128	ERJ3GEYJ683V	S.M.CARB	0.1W 5%	68K Ω	R1208	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R467	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω	R865	ERQ12HJ180P	FUSIBLE	0.5W 5%	18 Ω △	R1129	ERJ3GEYJ562V	S.M.CARB	0.1W 5%	5K6 Ω	R1209	EXB38V680UV	S.M.RES	0.063	68 Ω
R501	ERJ6GEYJ392V	S.M.CARB	0.1W 5%	3K9 Ω	R867	ERJ6GEYJ682V	S.M.CARB	0.1W 5%	6K8 Ω	R1130	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1210	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R503	ERJ6GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R868	ERDS2TJ271T	CARBON	0.25W 5%	270 Ω	R1131	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1211	D1HG680BA002	CHIP RES	0.25W	68 Ω
R507	ERG3J680H	METAL	3W 5%	68 Ω	R869	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω	R1132	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1212	D1HG680BA002	CHIP RES	0.25W	68 Ω
R509	ERG1SJ222E	METAL	0.5W 5%	2K2 Ω	R871	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω	R1133	ERJ3GEYJ273V	S.M.CARB	0.1W 5%	27K Ω	R1213	ERJ3GEYJ680V	S.M.CARB	0.1W 5%	68 Ω
R510	ERG1SJ222E	METAL	0.5W 5%	2K2 Ω	R873	ERG3FJ151H	METAL	3W 5%	150 Ω	R1134	ERJ3GEYJ471V	S.M.CARB	0.1W 5%	470 Ω	R1214	EXB38V680UV	S.M.RES	0.063	68 Ω
R553	ERX3JSJ8R68H	METAL	3W 5%	R68 Ω	R874	ERG3FJ151H	METAL	3W 5%	150 Ω	R1135	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1215	ERJ3GEYJ680V	S.M.CARB	0.1W 5%	68 Ω
R555	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω	R875	ERDS1TJ2R2T	CARBON	0.5W 5%	2R2 Ω	R1136	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1216	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R556	ERJ6GEYJ124M	S.M.CARB	0.1W 5%	120K Ω	R876	ERDS2TJ101T	CARBON	0.25W 5%	100 Ω	R1137	ERJ3GEYJ822V	S.M.CARB	0.1W 5%	8K2 Ω	R1217	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R557	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R877	ERDS2TJ202T	CARBON	0.25W 5%	2K Ω	R1138	ERJ3GEYJ153V	S.M.CARB	0.1W 5%	15K Ω	R1218	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω
R558	ERDS1TJ124T	CARBON	0.5W 5%	120K Ω	R878	ERDS1TJ103T	CARBON	0.5W 5%	10K Ω	R1139	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1251	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω
R559	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω	R882	ERJ6GEYJ153V	S.M.CARB	0.1W	5K 15K	R1140	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1502	ERJ3GEYJ152V	S.M.CARB	0.1W 5%	1K5 Ω
R560	ERJ6GEYJ274V	S.M.CARB	0.1W 5%	270K Ω	R883	ERJ6GEYJ473V	S.M.CARB	0.1W 5%	47K Ω	R1141	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1503	ERJ3GEYJ152V	S.M.CARB	0.1W 5%	1K5 Ω
R561	ERJ6GEYJ223V	S.M.CARB	0.1W 5%	22K Ω	R884	ERJ6GEYJ753V	S.M.CARB	0.1W 5%	75K Ω	R1142	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1504	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Ω
R562	ERJ6GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	R885	ERDS2TJ572T	CARBON	0.25W 5%	7K5 Ω	R1143	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1510	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R563	ERJ6GEYJ564V	S.M.CARB	0.1W 5%	560K Ω	R886	ERJ6GEYJ752V	S.M.CARB	0.1W	5K5 Ω	R1144	ERJ3GEYJ473V	S.M.CARB	0.1W 5%	47K Ω	R1511	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R564	ERJ6GEYJ563V	S.M.CARB	0.1W 5%	56K Ω	R887	ERDS1TJ683T	CARBON	0.5W 5%	68K Ω	R1145	ERJ3GEYJ473V	S.M.CARB	0.1W 5%	47K Ω	R1512	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R566	ERJ6GEYJ102V	S.M.CARB	0.1W 5%	1K Ω	R889	ERJ6GEYJ752V	S.M.CARB	0.1W 5%	7K5 Ω	R1147	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1513	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R567	ERJ6GEYJ124V	S.M.CARB	0.1W 5%	120K Ω	R892	ERDS1TJ151T	CARBON	0.5W 5%	750 Ω	R1150	ERJ3GEYJ331V	S.M.CARB	0.1W 5%	330 Ω	R1514	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R568	ERDS1TJ120T	CARBON	0.5W 5%	12 Ω	R893	ERJ6ENF3002V	S.M.CARB	0.1W 5%	30K Ω	R1151	ERJ3GEYJ683V	S.M.CARB	0.1W 5%	68K Ω	R1515	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R569	ERJ6GEYJ102V	S.M.CARB	0.1W 5%	1K Ω	R894	ERJ6ENF1002V	S.M.CARB	0.1W 1%	10K Ω	R1152	ERJ3GEYJ332V	S.M.CARB	0.1W 5%	3K3 Ω	R1516	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R576	ERQ12HKR39P	FUSIBLE	0.5W 10%	R39 Ω	R896	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω	R1153	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Ω	R1519	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R581	ERG3FJ561H	METAL	3W 5%	560 Ω	R897	ERDS2TJ622T	CARBON	0.25W 5%	6K2 Ω	R1154	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Ω	R1520	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R701	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R898	ERDS2TJ273T	CARBON	0.25W 5%	27K Ω	R1155	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1521	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Ω
R702	ERXF3J1R0H	METAL	3W 5%	1 Ω	R899	ERJ2FJ3R9H	METAL	2W 5%	3.9 Ω	R1156	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1523	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Ω
R703	343-232R3AY	METAL	10W 5%	3R3 Ω	R901	ERJ6GEYJ271V	S.M.CARB	0.1W 5%	270 Ω	R1157	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1524	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Ω
R704	ERDS1TJ472V	CARBON	0.5W 5%	4K7 Ω	R902	ERDS2TJ122T	CARBON	0.25W 5%	1K2 Ω	R1158	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1525	ERJ3GEYJ152V	S.M.CARB	0.1W 5%	1K5 Ω
R705	ERG3FJ201H	METAL	3W 5%	200 Ω	R903	ERDS2TJ100T	CARBON	0.25W 5%	10 Ω	R1159	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Ω	R1526	ERJ3GEYJ221V	S.M.CARB	0.1W 5%	220 Ω
R706	ERG3FJ201H	METAL	3W 5%	200 Ω	R904	ERG5FJ512H	METAL	5W 5%	1K5 Ω	R1160	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Ω	R1540	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω
R707	ERJ6GEYJ272V	S.M.CARB	0.1W 5%	2K7 Ω	R905	ERJ6GEYJ271V	S.M.CARB	0.1W 5%	270 Ω	R1161	ERJ3GEYJ102V	S.M.CARB	0.1W 5%	1K Ω	R1547	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R708	ERJ6GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R906	ERDS2TJ222T	CARBON	0.25W 5%	1K2 Ω	R1162	ERJ3GEYJ102V	S.M.CARB	0.1W 5%	10K Ω	R1548	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R709	ERJ6GEYJ473V	S.M.CARB	0.1W 5%	47K Ω	R907	ERDS2TJ124T	CARBON	0.25W 5%	120K Ω	R1163	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1549	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R710	ERJ6GEYR00V	S.M.CARB	0.1W	0 Ω	R908	ERDS2TJ124T	CARBON	0.25W 5%	120K Ω	R1164	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1551	ERJ3GEYJ221V	S.M.CARB	0.1W 5%	220 Ω
R711	ERG2SJ123H	METAL	2W 5%	12K Ω	R909	ERDS2TJ100T	CARBON	0.25W 5%	10 Ω	R1165	ERJ3GEYJ273V	S.M.CARB	0.1W 5%	27K Ω	R1552	ERJ3GEYJ221V	S.M.CARB	0.1W 5%	220 Ω
R712	ERJ6GEYJ203V	S.M.CARB	0.1W 5%	20K Ω	R910	ERG2SJ181E	METAL	2W 5%	180 Ω	R1166	ERJ3GEYJ224V	S.M.CARB	0.1W 5%	220K Ω	R1553	ERJ3GEYJ331V	S.M.CARB	0.1W 5%	330 Ω
R713	ERDS2TJ301T	CARBON	0.25W 5%	300 Ω	R914	ERJ6GEYJ331V	S.M.CARB	0.1W 5%	330 Ω	R1167	ERJ3GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	R1556	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Ω
R715	ERDS2TJ272T	CARBON	0.25W 5%	2K7 Ω	R1005	ERJ6GEYJ332V	S.M.CARB	0.1W 5%	3K3 Ω	R1168	ERJ3GEYJ473V	S.M.CARB	0.1W 5%	100K Ω	R1561	ERJ3GEYJ221V	S.M.CARB	0.1W 5%	220 Ω
R716	ERQ12AJ680P	METAL	0.5W 5%	68 Ω	R1007	ERJ6GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1169	ERJ3GEYJ473V	S.M.CARB	0.1W 5%	47K Ω	R1562	ERJ3GEYJ221V	S.M.CARB	0.1W 5%	220 Ω
R717	ERJ6GEYJ242V	S.M.CARB	0.1W 5%	2K4 Ω	R1017	ERJ6GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R1170	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Ω	R1701	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R718	ERJ6GEYJ203V	S.M.CARB	0.1W 5%	20K Ω	-R1043	ERJ6GEYJ682V	S.M.CARB	0.1W 5%	6K8 Ω	R1171	ERJ3GEYJ225V	S.M.CARB	0.1W 5%	2M2 Ω	R1704	ERJ3GEYR00V	S.M.CARB	0.1W	0 Ω
R720	ERJ6GEYJ302V	S.M.CARB	0.1W 5%	3K Ω	R1044	ERJ6GEYJ123V	S.M.CARB	0.1W 5%	12K Ω	R1172	ERJ3GEYJ221V	S.M.CARB	0.1W 5%	220 Ω	R1705	ERJ3GEYJ122V	S.M.CARB	0.1W 5%	1K2 Ω
R721	ERJ6GEYJ202V	S.M.CARB	0.1W 5%	2K Ω	R1045	ERJ6GEYJ223V	S.M.CARB	0.1W 5%	22K Ω	R1173	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Ω	R1706	ERJ3GEYJ272V	S.M.CARB	0.1W 5%	2K7 Ω
R722	ERJ6GEYJ242V	S.M.CARB	0.1W 5%	2K4 Ω	R1046	ERJ6GEYJ683V	S.M												

Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description		
R1720	ERJ3GEYJ822V	S.M.CARB	0.1W 5%	8K2 Q	R2042	ERJBGYE0R00V	S.M.CARB	0.1W	0 Q	C108	ECA1CM470B	ELECT	16V 47μF
R1721	ERJ3GEYJ682V	S.M.CARB	0.1W 5%	6K8 Q	R2043	ERJ6GEY0R00V	S.M.CARB	0.1W	0 Q	C110	ECJ2VB1H103K	S.M.CAP	50V 10nF
R1723	ERJ3GEYJ561V	S.M.CARB	0.1W 5%	560 Q	R2044	ERJ6GEY0R00V	S.M.CARB	0.1W	0 Q	C111	ECJ1HM33B	ELECT	50V 330nF
R1724	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R2045	ERJ6GEY0R00V	S.M.CARB	0.1W	0 Q	C117	ECJ2VB1H103K	S.M.CAP	50V 10nF
R1725	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R3001	ERJ3GEYJ183V	S.M.CARB	0.1W 5%	18K Q	C118	ECA1CM221B	ELECT	16V 100nF
R1726	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R3002	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	C119	ECA1HM470B	ELECT	16V 220μF
R1727	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3003	ERJ3GEYJ183V	S.M.CARB	0.1W 5%	18K Q	C122	ECJ2FB1H104K	S.M.CAP	50V 100nF
R1728	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3004	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	C130	ECJ2VB1H103K	S.M.CAP	50V 10nF
R1730	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	R3005	ERJ6GEYJ123V	S.M.CARB	0.1W 5%	12K Q	C131	ECJ2VB1C104K	S.M.CAP	16V 100nF
R1732	ERJ3GEYJ151V	S.M.CARB	0.1W 5%	150 Q	R3006	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	C136	ECJ2FB1H104K	S.M.CAP	50V 100nF
R1733	ERJ3GEYJ151V	S.M.CARB	0.1W 5%	150 Q	R3007	ERJ3GEYJ272V	S.M.CARB	0.1W 5%	2K7 Q	C137	ECJ2VC1H560J	S.M.CAP	50V 56pF
R1734	ERJ3GEYJ151V	S.M.CARB	0.1W 5%	150 Q	R3008	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Q	C138	ECJ2VB1H220J	S.M.CAP	50V 22pF
R1735	ERJ3GEYJ821V	S.M.CARB	0.1W 5%	820 Q	R3009	ERJ3GEYJ183V	S.M.CARB	0.1W 5%	18K Q	C141	ECJ2VB1H103K	S.M.CAP	50V 10nF
R1736	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R3010	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	C142	ECJ2FB1H104K	S.M.CAP	50V 100nF
R1737	ERJ3GEYJ560V	S.M.CARB	0.1W 5%	56 Q	R3011	ERJ3GEYJ183V	S.M.CARB	0.1W 5%	18K Q	C251	ECA1HM010B	ELECT	50V 1μF
R1738	ERJ6GEYJ561V	S.M.CARB	0.1W 5%	560 Q	R3012	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	C252	ECA1HM010B	ELECT	50V 1μF
R1739	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R3013	ERJ3GEYJ272V	S.M.CARB	0.1W 5%	2K7 Q	C253	ECA1HM470B	ELECT	50V 4.7μF
R1740	ERJ3GEYJ560V	S.M.CARB	0.1W 5%	56 Q	R3014	ERJ3GEYJ123V	S.M.CARB	0.1W 5%	12K Q	C254	ECJ2VB1H102K	S.M.CAP	50V 1nF
R1741	ERJ6GEYJ561V	S.M.CARB	0.1W 5%	560 Q	R3015	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Q	C255	ECA1HM470B	ELECT	50V 4.7μF
R1742	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R3016	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Q	C256	ECJ2VB1H102K	S.M.CAP	50V 1nF
R1743	ERJ3GEYJ560V	S.M.CARB	0.1W 5%	56 Q	R3017	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Q	C259	ECQV1H684JL3	FILM	50V 680nF
R1744	ERJ6GEYJ561V	S.M.CARB	0.1W 5%	560 Q	R3018	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Q	C260	ECQV1H684JL3	FILM	50V 680nF
R1745	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R3019	ERJ6GEYJ750V	S.M.CARB	0.1W 5%	75 Q	C261	ECA1HM100B	ELECT	50V 10μF
R1746	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Q	R3020	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C262	ECA1HM100B	ELECT	50V 10μF
R1750	ERJ3GEYJ821V	S.M.CARB	0.1W 5%	820 Q	R3021	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C263	ECA1HM101B	ELECT	50V 100μF
R1751	ERJ3GEYJ244V	S.M.CARB	0.1W 5%	240K Ω	R3022	ERJ3GEYJ391V	S.M.CARB	0.1W 5%	390 Q	C264	ECQV1H154JL3	FILM	50V 150nF
R1752	ERJ3GEYJ560V	S.M.CARB	0.1W 5%	56 Q	R3023	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C265	ECQV1H154JL3	FILM	50V 150nF
R1755	ERJ6GEYJ471V	S.M.CARB	0.1W 5%	470 Q	R3024	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C266	ECJ2FB1H104K	S.M.CAP	50V 100nF
R1759	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3025	ERJ3GEYJ391V	S.M.CARB	0.1W 5%	390 Q	C267	ECJ2FB1H104K	S.M.CAP	50V 100nF
R1780	ERJ3GEYJ331V	S.M.CARB	0.1W 5%	330 Q	R3026	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C269	ECA1HM33E	ELECT	50V 330nF
R1781	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3027	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C352	ECJ2VF1H104Z	S.M.CAP	50V 100nF
R1782	ERJ3GEYJ102V	S.M.CARB	0.1W 5%	1K Ω	R3029	ERJ3GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	C353	ECJ2YB1H104K	S.M.CAP	50V 100nF
R1783	ERJ3GEYJ271V	S.M.CARB	0.1W 5%	270 Q	R3030	ERJ3GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	C354	ECQE2104KF3	FILM	250V 100nF
R1784	ERJ3GEYJ472V	S.M.CARB	0.1W 5%	4K7 Q	R3031	ERJ3GEYJ391V	S.M.CARB	0.1W 5%	390 Q	C355	ECKR2H102KB5	CERAMIC	500V 1nF
R1901	ERJ6GEYJ472V	S.M.CARB	0.1W 5%	4K7 Q	R3032	ERJ3GEYJ391V	S.M.CARB	0.1W 5%	390 Q	C358	ECJ2VF1H104Z	S.M.CAP	50V 100nF
R1902	ERJ6GEYJ392V	S.M.CARB	0.1W 5%	3K9 Q	R3033	ERJ3GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	C359	ECJ2VC1H150J	S.M.CAP	50V 15pF
R1903	ERJ6GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	R3034	ERJ3GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	C360	ECJ2VF1E104Z	S.M.CAP	25V 100nF
R1904	ERDS1T1J2R2T	CARBON	0.5W 5%	2R2 Q	R3037	ERJ3GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	C362	ECJ2VF1H104Z	S.M.CAP	50V 100nF
R1905	ERJ6GEYJ273V	S.M.CARB	0.1W 5%	27K Q	R3038	ERJ3GEYJ104V	S.M.CARB	0.1W 5%	100K Ω	C363	ECJ2YB1H104K	S.M.CAP	50V 100nF
R1906	ERJ6GEYJ273V	S.M.CARB	0.1W 5%	27K Q	R3039	ERJ6GEYJ680V	S.M.CARB	0.1W 5%	68 Q	C364	ECQE2104KF3	FILM	250V 100nF
R1907	ERJ6GEYJ273V	S.M.CARB	0.1W 5%	27K Q	R3040	ERJ6GEYJ680V	S.M.CARB	0.1W 5%	68 Q	C365	ECKR2H102KB5	CERAMIC	500V 1nF
R1908	ERJ6GEYJ0R00V	S.M.CARB	0.1W	0 Q	R3043	ERJ6GEYJ0R00V	S.M.CARB	0.1W	0 Q	C366	SMG1C101M5T	ELECT	16V 100μF
R1909	ERDS1T1J2R2T	CARBON	0.5W 5%	2R2 Q	R3049	ERJ3GEYJ391V	S.M.CARB	0.1W 5%	390 Q	C368	ECA1CM221B	ELECT	16V 220μF
R1911	ERDS1T1J6R8T	CARBON	0.5W 5%	6R8 Q	R3050	ERJ3GEYJ391V	S.M.CARB	0.1W 5%	390 Q	C372	ECJ2VF1H104Z	S.M.CAP	50V 100nF
R1912	ERDS2T1J02T	CARBON	0.25W 5%	1K Ω	R3056	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C373	ECJ2YB1H104K	S.M.CAP	50V 100nF
R1913	ERJ6GEYJ222V	S.M.CARB	0.1W 5%	2K2 Q	R3057	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C374	ECQE2104KF3	FILM	250V 100nF
R1926	ERJ6GEYJ102V	S.M.CARB	0.1W 5%	1K Ω	R3058	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C375	ECKR2H102KB5	CERAMIC	500V 1nF
R2011	ERJ6GEYJ183V	S.M.CARB	0.1W 5%	18K Q	R3059	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C379	ECJ2VC1H150J	S.M.CAP	50V 15pF
R2013	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3060	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C382	ECA1HM100B	ELECT	50V 10μF
R2014	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3061	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C385	ECA2EM100B	ELECT	250V 10μF
R2015	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3062	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C386	ECKW3D152JBR	CERAMIC	2KV 1.5nF
R2016	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3063	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C451	ECJ2VB1H102K	S.M.CAP	50V 1nF
R2017	ERJ6GEYJ471V	S.M.CARB	0.1W 5%	470 Q	R3064	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C453	ECJ2FB1H104K	S.M.CAP	50V 100nF
R2020	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3065	ERJ3GEY0R00V	S.M.CARB	0.1W	0 Q	C454	ECJ2FB1H104K	S.M.CAP	50V 100nF
R2021	ERJ6GEYJ562V	S.M.CARB	0.1W 5%	5K6 Q	R3201	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C456	ECA1HM221B	ELECT	50V 220μF
R2022	ERJ6GEYJ221V	S.M.CARB	0.1W 5%	220 Q	R3202	ERJ3GEYJ103V	S.M.CARB	0.1W 5%	10K Ω	C459	ECQB1224KFW	FILM	100V 220nF
R2024	ERJ6GEYJ0R00V	S.M.CARB	0.1W	0 Q	R3203	ERG2JS5151H	METAL	2W 5%	150 Q	C463	ECA1HM221B	ELECT	50V 220μF
R2029	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3205	ERDS1T1J51T	CARBON	0.5W 5%	150 Q	C501	ECA1EM101B	ELECT	25V 100μF
R2032	ERJ6GEYJ101V	S.M.CARB	0.1W 5%	100 Q	R3208	ERG2JS5151H	METAL	2W 5%	150 Q	C508	ECQB1H392JF3	FILM	50V 3.9nF
R2033	ERJ6GEYJ471V	S.M.CARB	0.1W 5%	470 Q	R3212	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	C509	ECA1HM470B	ELECT	50V 47μF
R2036	ERJ6GEYJ0R00V	S.M.CARB	0.1W	0 Q	R3213	ERJ3GEYJ101V	S.M.CARB	0.1W 5%	100 Q	C552	ECWH20102JYV	FILM	2KV 1nF
R2037	ERJ6GEYJ102V	S.M.CARB	0.1W 5%	1K Ω	R3214	ERJ3GEYJ153V	S.M.CARB	0.1W 5%	15K Q	C557	ECKR2H471KB5	CERAMIC	500V 470pF
R2038	ERJ6GEYJ562V	S.M.CARB	0.1W 5%	5K6 Q	R3215	ERJ3GEYJ153V	S.M.CARB	0.1W 5%	15K Q	C558	ECA1HG101B	ELECT	50V 100μF
R2039	ERJ6GEYJ221V	S.M.CARB	0.1W 5%	220 Q	R3217	ERDS1T1J51T	CARBON	0.5W 5%	150 Q	C559	ECJ2FB1H104K	S.M.CAP	50V 100nF
R2040	ERJ6GEYJ222V	S.M.CARB	0.1W 5%	2K2 Q	CAPACITORS								
R2041	ERJ6GEY0R00V	S.M.CARB	0.1W	0 Q	G107	EQZVF1H104Z	S.M.CAP	50V	100nF	C560	ECKR2H101KB5	CERAMIC	500V 100pF
									C562	ECKR2H101KB5	CERAMIC	500V 100nF	
									C564	ECA2AN2R2S2B	ELECT	100V 2.2μF	
									C566	ECKR2H471KB5	CERAMIC	500V 470pF	
									C568	ECKR2H471KB5	CERAMIC	500V 470pF	
									C572	ECJ2VB1A210K	S.M.CAP	50V 220pF	
									C573	ECJ2VC1H221J	S.M.CAP	50V 100nF	
									C574	ECJ2VC1H221J	S.M.CAP	50V 100nF	
									C576	ECQ1H335KFB	FILM	100V 3.3μF	
									C577	ECQ1H335KFB	FILM	100V 3.3μF	
									C578	ECQ1H335KFB	FILM	100V 3.3μF	
									C580	ECQ1H335KFB	FILM	100V 3.3μF	
									C582	ECQ1H335KFB	FILM	100V 3.3μF	

Cat Ref	Parts Number	Description	Cat Ref	Parts Number	Description	Cat Ref	Parts Number	Description	Cat Ref	Parts Number	Description							
C895	ECA1CHG101B	ELECT	16V	100µF	C1548	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2009	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3038	ECA1CM100B	ELECT	16V
C896	ECJ2VB1H104K	S.M.CAP	50V	100nF	C1549	ECEA1CKA470B	ELECT	16V	47nF	C2010	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3039	ECA1CM100B	ELECT	16V
C901	SMG1CV101MT5	ELECT	16V	100µF	C1550	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2011	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3040	ECA1CM100B	ELECT	16V
C902	ECJ2VF1H103Z	S.M.CAP	50V	10nF	C1551	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2012	ECAM1CM00B	ELECT	16V	10µF	C3041	ECA1CM100B	ELECT	16V
C903	ECKR2H472MDS	CERAMIC	500V	4.7nF	C1560	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2013	ECAM1CM00B	ELECT	16V	10µF	C3044	ECA1CM100B	ELECT	16V
C904	ECJ2VB1H1472K	S.M.CAP	50V	4.7nF	C1561	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2014	ECJ2VC1H1471J	S.M.CAP	50V	470pF	C3045	ECA1CM100B	ELECT	16V
C905	ECA2CM220B	ELECT	160V	22µF	C1563	SMG1HV220MT5	ELECT	50V	22nF	C2015	ECJ2VB1H152K	S.M.CAP	50V	1.5nF	C3201	ECJ2VB1H103K	S.M.CAP	50V
C906	ECA2CM220B	ELECT	160V	22µF	C1565	ECJ2YB1H104R	S.M.CAP	50V	100nF	C2016	ECAM1HM00B	ELECT	50V	10µF	C3202	ECJ2VB1H103K	S.M.CAP	50V
C907	ECA2CM220B	ELECT	160V	22µF	C1573	ECJ1VB1C473K	S.M.CAP	16V	47nF	C2017	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3203	ECJ2VC1H561J	S.M.CAP	50V
C1002	SMG1CV101MT5	ELECT	16V	100µF	C1574	ECJ1VB1C473K	S.M.CAP	16V	47nF	C2018	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3204	ECJ2VC1H561J	S.M.CAP	50V
C1003	ECJ2VB1H104K	S.M.CAP	50V	100nF	C1575	ECJ1VB1C473K	S.M.CAP	16V	47nF	C2019	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3207	ECJ2VC1H271J	S.M.CAP	50V
C1004	ECJ2VB1H103K	S.M.CAP	50V	10nF	C1580	ECAM1HM00B	ELECT	50V	10µF	C2020	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3213	ECJ2VC1H561J	S.M.CAP	50V
C1005	SMG1CV101MT5	ELECT	16V	100µF	C1581	ECAM1HM00B	ELECT	50V	10µF	C2021	ECAM1HM3R3B	ELECT	50V	3.3µF	C3214	ECJ2VC1H561J	S.M.CAP	50V
C1007	ECJ2VC1H270J	S.M.CAP	50V	27pF	C1701	ECJ1VC1H270J	S.M.CAP	50V	27pF	C2022	ECJ2FB1H104K	S.M.CAP	50V	100nF	C3215	SMG1HV470MT5	ELECT	50V
C1101	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1702	ECJ1VC1H270J	S.M.CAP	50V	27pF	C2023	ECJ2VB1H1221J	S.M.CAP	50V	220pF	C3216	SMG1HV470MT5	ELECT	50V
C1102	ECA1CM101B	ELECT	16V	100µF	C1703	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2024	ECJ2VC1H221J	S.M.CAP	50V	220pF	C3217	ECJ2VC1H561J	S.M.CAP	50V
C1103	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1704	ECEA1KA221Q	ELECT	10V	220pF	C2025	ECAM1CM00B	ELECT	16V	10µF	C3218	ECJ2VC1H561J	S.M.CAP	50V
C1104	ECA1CM101B	ELECT	16V	100µF	C1705	ECJ1VB1H222K	S.M.CAP	50V	2.2nF	C2026	ECJ2FB1H104K	S.M.CAP	50V	100nF	TERMINALS AND LINKS			
C1105	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1706	ECAM1CM00B	ELECT	16V	10µF	C2027	ECJ2VC1H221J	S.M.CAP	50V	220pF	JK3001	350536400	SCART SOCKET	
C1107	ECJ1VC1H330J	S.M.CAP	50V	33pF	C1707	ECJ1VC1H270J	S.M.CAP	50V	27pF	C2028	ECAM1CM00B	ELECT	16V	10µF	JK3002	350536400	SCART SOCKET	
C1108	ECJ1VC1H330J	S.M.CAP	50V	33pF	C1708	ECA0JHG102B	ELECT	6.3V	1nF	C2029	ECJ2VB1H152K	S.M.CAP	50V	1.5nF	JK3004	YK21-5861N	RCA SOCKET	
C1109	ECJ1VB1H103K	S.M.CAP	50V	10nF	C1709	ECJ1VB1H102K	S.M.CAP	50V	1nF	C2030	ECJ2VC1H471J	S.M.CAP	50V	470pF	JK3201	TJB8E026	AV TERMINAL	
C1111	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1710	ECJ1VB1H153K	S.M.CAP	50V	15nF	C2031	ECJ2VC1H070D	S.M.CAP	50V	7pF	SC381	330550049	CRT SOCKET	
C1116	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1711	ECJ1VB1H153K	S.M.CAP	50V	15nF	C2032	ECJ2VC1H470J	S.M.CAP	50V	47pF	SWITCHES			
C1117	ECJ1VC1H221J	S.M.CAP	50V	220pF	C1713	ECA1CM100B	ELECT	16V	10µF	C2034	ECJ2VC1H101C	S.M.CAP	50V	1pF	SW601	ES892DA1B	SWITCH	
C1118	ECJ1VC1H221J	S.M.CAP	50V	220pF	C1714	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2035	ECJ2VC1H010C	S.M.CAP	50V	1pF	SW1003	EV21405R	SWITCH	
C1119	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1718	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2041	ECJ2VF1C334Z	S.M.CAP	18V	330nF	SW1004	EV21405R	SWITCH	
C1120	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1719	ECJ1VB1H103K	S.M.CAP	50V	10nF	C2042	ECJ2VF1C334Z	S.M.CAP	16V	330nF	SW1005	EV21405R	SWITCH	
C1121	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1720	ECJ1VB1H103K	S.M.CAP	50V	10nF	C2043	ECJ2VB1H103K	S.M.CAP	50V	10nF	SW1006	EV21405R	SWITCH	
C1122	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1721	ECJ1VB1H103K	S.M.CAP	50V	10nF	C2044	ECA1CM31B	ELECT	16V	330pF	SW1007	EV21405R	SWITCH	
C1123	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1722	ECJ1VB1H103K	S.M.CAP	50V	10nF	C2046	ECA1CM470B	ELECT	16V	47µF	RELAYS			
C1124	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1723	ECA1CM101B	ELECT	16V	100µF	C2047	ECA1CM470B	ELECT	16V	47µF	RL801	8-1419125-3	RELAY	
C1125	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1724	ECJ1VB1H222K	S.M.CAP	50V	2.2nF	C2048	ECJ2VF1C334Z	S.M.CAP	16V	330nF	DIFFERENCES FOR MODEL TX-28PS11D			
C1126	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1725	ECA1CM100B	ELECT	16V	10µF	C2050	ECJ2VF1C334Z	S.M.CAP	16V	330nF	EXPLDED VIEW			
C1127	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1726	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2051	ECJ2VF1C334Z	S.M.CAP	16V	330nF	13	TKP0E11805-1	AV PANEL	
C1501	ECJ1VC1H220J	S.M.CAP	50V	22pF	C1727	ECA1CM470B	ELECT	16V	47nF	C2052	ECJ2VC1H221J	S.M.CAP	50V	220pF	14	TKU0E0112	BACK COVER	
C1502	ECJ1VC1H220J	S.M.CAP	50V	22pF	C1728	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2053	ECJ2VC1H221J	S.M.CAP	50V	220pF	15	W66EKTS071	C.R.T.	
C1503	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1731	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2054	ECJ2VC1H221J	S.M.CAP	50V	220pF	16	TKY0E0110-1	CABINET	
C1505	ECJ2VB1H104K	S.M.CAP	50V	100nF	C1732	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2055	ECJ2VC1H221J	S.M.CAP	50V	220pF	17	TNP8E0D020AN	D.P.C.B.	
C1508	ECJ2VB1H104K	S.M.CAP	50V	100nF	C1733	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2056	ECA1CM470B	ELECT	16V	47µF	18	TLK8E05197	DEGAUSS COIL	
C1509	ECJ1VB1H103K	S.M.CAP	50V	10nF	C1734	ECJ1VC1H391J	S.M.CAP	50V	390pF	C2057	ECA1CM470B	ELECT	16V	47µF	19	TKP0E10604	DOOR LID	
C1510	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1735	ECJ1VC1H391J	S.M.CAP	50V	390pF	C2058	ECA1CM470B	ELECT	16V	47µF	20	ZTFN65007A	F.B.T.	
C1511	ECJ2YB1H104K	S.M.CAP	50V	100nF	C1736	ECJ1VC1H391J	S.M.CAP	50V	390pF	C2059	ECA1CM470B	ELECT	16V	47µF	21	TBM0E0245-1	MODEL LABEL	
C1512	ECJ2VB1H104K	S.M.CAP	50V	100nF	C1737	ECJ1VC1H391J	S.M.CAP	50V	390pF	C2061	ECJ2VF1C334Z	S.M.CAP	16V	330nF	22	TBX0E80401	POWER BUTTON	
C1514	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1742	ECJ1VB1H472K	S.M.CAP	50V	4.7nF	C2062	ECJ2VC1H221J	S.M.CAP	50V	220pF	MICROLENOUS COMPONENTS			
C1515	ECA1CM100B	ELECT	16V	10µF	C1743	ECA1HM3R3B	ELECT	50V	3.3µF	C2063	ECJ2VC1H012B	ELECT	35V	1000µF	TPC0E42301A	CARTON		
C1516	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1744	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2064	ECJ2VC1H102J	S.M.CAP	50V	1nF	TPD0E0026	BOTTOM CUSHION		
C1517	ECJ1VC1H271J	S.M.CAP	50V	270pF	C1745	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2065	ECJ2VC1H102J	S.M.CAP	50V	560pF	TPD0E0027	TOP CUSHION		
C1518	ECJ1VC1H271J	S.M.CAP	50V	270pF	C1746	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2066	ECJ2VC1H102J	S.M.CAP	50V	560pF	INSTRUCTION BOOKS			
C1519	ECA1CM100B	ELECT	16V	10µF	C1752	ECJ1VB1H471K	S.M.CAP	50V	470pF	C2067	ECJ2VC1H102J	S.M.CAP	50V	560pF	IC1103	15E0/050/0E	4MEG EPROM M27W401-80B	
C1520	ECJ1VB1H103K	S.M.CAP	50V	10nF	C1783	ECJ1VC1H151J	S.M.CAP	50V	150pF	C3001	ECJ1VC1H561J	S.M.CAP	50V	560pF	IC1104	1500/1BD	32K EARM 24C32A10P127	
C1522	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1901	ECJ2VB1H03K	S.M.CAP	50V	10nF	C3002	ECJ1VC1H561J	S.M.CAP	50V	560pF	T0B0E0010A2M	GERMAN		
C1524	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1902	ECJ2YB1H104K	S.M.CAP	50V	100nF	C3003	ECJ1VC1H561J	S.M.CAP	50V	560pF	T0B0E0010C3M	ITALIAN		
C1525	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1905	ECA1CM470B	ELECT	16V	47nF	C3006	ECJ1VC1H561J	S.M.CAP	50V	560pF	TQB0E0010D2M	FRENCH		
C1527	ECJ1VC1H331J	S.M.CAP	50V	330pF	C1908	ECJ2YB1H104K	S.M.CAP	50V	100nF	C3007	ECJ1VC1H561J	S.M.CAP	50V	560pF	I.C.s			
C1530	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C1909	ECJ2YB1H104K	S.M.CAP	50V	100nF	C3008	ECJ1VC1H561J	S.M.CAP	50V	560pF	D352	ERA15-04V3	DIODE	
C1532	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2001	ECA1CM100B	ELECT	16V	10µF	C3011	ECJ1VC1H561J	S.M.CAP	50V	560pF	D353	ERA15-04V3	DIODE	
C1533	ECJ1VB1H103K	S.M.CAP	50V	10nF	C2002	ECJ2VB1H152K	S.M.CAP	50V	1.5nF	C3013	ECJ1VC1H561J	S.M.CAP	50V	560pF	D354	ERA15-04V3	DIODE	
C1535	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2003	ECJ2VC1H471J	S.M.CAP	50V	470pF	C3014	ECJ1VC1H561J	S.M.CAP	50V	560pF	D355	ERA15-04V3	DIODE	
C1537	ECJ1VF1E104Z	S.M.CAP	25V	100nF	C2004	ECJ2VC1H221J	S.M.CAP	50V	220pF	C3015	ECJ1VC1H561J	S.M.CAP	50V	560pF	D356	ERA15-04V3	DIODE	
C1543	ECJ2VB1H104K	S.M.CAP	50V	100nF	C2005	ECJ2FB1H104K	S.M.CAP	50V	100nF	C3016	ECJ1VC1H561J	S.M.CAP	50V	560pF	D362	ERA15-04V3	DIODE	
C1544	ECJ2VB1H104K	S.M.CAP	50V	100nF	C2006	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3018	ECJ1VC1H561J	S.M.CAP	50V	560pF	D363	ERA15-04V3	DIODE	
C1545	ECA1CM221B	ELECT	16V	220pF	C2007	ECJ2VB1H102K	S.M.CAP	50V	1nF	C3019	ECJ1VC1H561J	S.M.CAP	50V	560pF	D372	ERA15-04V3	DIODE	

Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	
D373	ERA15-04V3	DIODE				I.C.s						
D456	MTZJT-776.2B	DIODE	DIFFERENCES FOR MODEL TX--29PS11D						DIFFERENCES FOR MODEL TX--29PS11P			
COILS												
L584	ELH5L7727	COIL	EXPLODED VIEW						EXPLODED VIEW			
RESISTORS			13	TKP0E11805	AV PANEL	D456	MTZJT-775.6C	DIODE	13	TKP0E11805	AV PANEL	
R461	ERX2SJS1R2H	FUSIBLE	2W 5% 1R2 Ω	14	TKU0E0111	BACK COVER	COILS			14	TKU0E0111	BACK COVER
CAPACITORS				15	A68ELO50X71	C.R.T.			15	A68ELO50X71	C.R.T.	
C109	ECJ2VB1H472K	S.M.CAP	50V 4.7nF	16	TKY0E0104-1	CABINET	RESISTORS			16	TKY0E0104-1	CABINET
C551	ECKW3D221JBR	CERAMIC	2KV 220pF	17	TNP8ED020AE	D P.C.B.			17	TNP8ED020AE	D P.C.B.	
C561	ECA1EM471B	ELECT	25V 470μF	18	TLK8E05195	DEGAUSS COIL			18	TLK8E05195	DEGAUSS COIL	
C567	ECA1EM471B	ELECT	25V 470μF	19	TKP0E10604	DOOR LID			19	TKP0E10604	DOOR LID	
C581	ECWF4624JB	FILM	400V 620nF	20	ZTFN65007A	F.B.T.			20	ZTFN65007A	F.B.T.	
C1112	ECJ1VC1H151J	S.M.CAP	50V 150pF	21	TBMOE0206	MODEL LABEL			21	TBMOE0206	MODEL LABEL	
				22	TBX0E0401	POWER BUTTON			22	TBX0E0401	POWER BUTTON	
DIFFERENCES FOR MODEL TX--28PS11F			MISCELLANEOUS COMPONENTS						MISCELLANEOUS COMPONENTS			
EXPLODED VIEW			TPC0E42201C	CARTON		TPC0E42201C	CARTON		TPC0E42201C	CARTON		
13	TKP0E11805-1	AV PANEL		TPD0E0013	BOTTOM CUSHION		TPD0E0013	BOTTOM CUSHION		TPD0E0013	BOTTOM CUSHION	
14	TKU0E0112	BACK COVER		TPD0E0014	TOP CUSHION		TPD0E0014	TOP CUSHION		TPD0E0014	TOP CUSHION	
INSTRUCTION BOOKS			INSTRUCTION BOOKS						INSTRUCTION BOOKS			
13	TQ80E0007A1M	GERMAN	I.C.s				TQ80E0009M1M	BULGARIAN				
14	TQ80E0007C1M	ITALIAN		TQ80E0009N1M	ROMANIAN		TQ80E0009P1M	POLISH				
15	TQ80E0007D1M	FRENCH		TQ80E0009Q1M	HUNGARIAN		TQ80E0009R1M	CZECH				
16	TQ80E0009U1M	ENGLISH		TQ80E0009W1M	SLOVAKIAN							
17	TQ80E0009V1M	SLOVAKIAN										
18	TQ80E0009W1M											
19	TQ80E0009X1M											
20	TQ80E0009Y1M											
21	TQ80E0009Z1M											
22	TQ80E0009A1M											
MISCELLANEOUS COMPONENTS			EXPLODED VIEW						EXPLODED VIEW			
TPC0E42301A	CARTON		D456	MTZJT-775.6C	DIODE		TQ80E0009M1M	BULGARIAN				
TPD0E0026	BOTTOM CUSHION						TQ80E0009N1M	ROMANIAN				
TPD0E0027	TOP CUSHION		L584	ELH5L7727	COIL		TQ80E0009P1M	POLISH				
INSTRUCTION BOOKS			RESISTORS				TQ80E0009Q1M	HUNGARIAN				
TQ80E0011A2M	GERMAN		R461	ERX2SJS1R0H	METAL		TQ80E0009R1M	CZECH				
TQ80E0011B2M	DUTCH		CAPACITORS				TQ80E0009U1M	ENGLISH				
TQ80E0011D2M	FRENCH						TQ80E0009V1M	SLOVAKIAN				
TQ80E0011E2M	SPANISH											
TQ80E0011F2M	SWEDISH											
TQ80E0011G2M	NORWEGIAN											
TQ80E0011H2M	FINNISH											
TQ80E0011K2M	DANISH											
DIFFERENCES FOR MODEL TX--29PS11D/B												
EXPLODED VIEW												
C109	ECJ2VB1H472K	S.M.CAP	50V 1nF									
C551	ECKW3D2471JBR	CERAMIC	2KV 470μF									
C561	ECA1EM222E	ELECT	25V 2200μF									
C567	ECA1EM222E	ELECT	25V 2200μF									
C581	ECWF4684JB	FILM	400V 680nF									
C1112	ECJ1VC1H121J	S.M.CAP	50V 120pF									
INSTRUCTION BOOKS												
TQ80E0008A2M	GERMAN											
TQ80E0008B2M	DUTCH											
TQ80E0008C2M	FRENCH											
TQ80E0008D2M	SPANISH											
TQ80E0008E2M	SWEDISH											
TQ80E0008F2M	NORWEGIAN											
TQ80E0008G2M	FINNISH											
TQ80E0008H2M	DANISH											
DIFFERENCES FOR MODEL TX--29PS11D/B												
EXPLODED VIEW												
13	TKP0E11805	AV PANEL										
14	TKU0E0130	BACK COVER										
15	A68ELO50X71	C.R.T.										
16	TKY0E0119-1	CABINET										
17	TNP8ED020AE	D P.C.B.										
18	TLK8E05195	DEGAUSS COIL										
19	TKP0E10604	DOOR LID										
20	ZTFN65007A	F.B.T.										
21	TBMOE0206	MODEL LABEL										
22	TBX0E0401	POWER BUTTON										
MISCELLANEOUS COMPONENTS												
INSTRUCTION BOOKS												
COILS												
L584	ELH5L7727	COIL										
RESISTORS												
R461	ERX2SJS1R2H	FUSIBLE	2W 5% 1R2 Ω									
CAPACITORS												
C109	ECJ2VB1H472K	S.M.CAP	50V 4.7nF									
C551	ECKW3D221JBR	CERAMIC	2KV 220pF									
C561	ECA1EM471B	ELECT	25V 470μF									
C567	ECA1EM471B	ELECT	25V 470μF									
C581	ECWF4624JB	FILM	400V 680nF									
C1112	ECJ1VC1H151J	S.M.CAP	50V 150pF									
DIFFERENCES FOR MODEL TX--29PS11D/B												
EXPLODED VIEW												
13	TKP0E11805	AV PANEL										
14	TKU0E0111	BACK COVER										
15	A68ELO50X71	C.R.T.										
16	TKY0E0104-1	CABINET										
17	TNP8ED020AE	D P.C.B.										
18	TLK8E05195	DEGAUSS COIL										
19	TKP0E10604	DOOR LID										
20	ZTFN65007A	F.B.T.										
21	TBMOE0206	MODEL LABEL										
22	TBX0E0401	POWER BUTTON										
MISCELLANEOUS COMPONENTS												
INSTRUCTION BOOKS												
COILS												
L584	ELH5L7727	COIL										
RESISTORS												
R461	ERX2SJS1R2H	FUSIBLE	2W 5% 1R2 Ω									
CAPACITORS												
C109	ECJ2VB1H472K	S.M.CAP	50V 4.7nF									
C551	ECKW3D221JBR	CERAMIC	2KV 220pF									
C561	ECA1EM471B	ELECT	25V 470μF									
C567	ECA1EM471B	ELECT	25V 470μF									
C581	ECWF4624JB	FILM	400V 680nF									
C1112	ECJ1VC1H151J	S.M.CAP	50V 150pF									
DIFFERENCES FOR MODEL TX--29PS11D/B												
EXPLODED VIEW												
13	TKP0E11805	AV PANEL										
14	TKU0E0111	BACK COVER										
15	A68ELO50X71	C.R.T.										
16	TKY0E0104-1	CABINET										
17	TNP8ED020AE	D P.C.B.										
18	TLK8E05195	DEGAUSS COIL										
19	TKP0E10604	DOOR LID										
20	ZTFN65007A	F.B.T.										
21	TBMOE0206	MODEL LABEL										
22	TBX0E0401	POWER BUTTON										
MISCELLANEOUS COMPONENTS												
INSTRUCTION BOOKS												
COILS												
L584	ELH5L7727	COIL										
RESISTORS												
R461	ERX2SJS1R2H	FUSIBLE	2W 5									

Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description	Cct Ref	Parts Number	Description					
INSTRUCTION BOOKS																
TQB0E0010A1M GERMAN TQB0E0010C1M ITALIAN TQB0E0010D1M FRENCH																
DIFFERENCES FOR MODEL TX-32PS11F																
EXPLODED VIEW																
I.C.s			13	TKP0E11805	AV PANEL											
IC1103	15E0/040/0E	4MEG EPROM M27W401-80B	14	TKU8E00780	BACK COVER	▲										
IC1104	1500/3AD	32K EAROM 24C32A10PI27	15	W76EKX50X71	C.R.T.	▲										
DIODES			16	TKY8E660-1	CABINET											
D456	MTZJT-776.2B	DIODE	17	TNP8ED020AD	D.P.C.B.	▲										
COILS			18	TLK0E9011	DEGAUSS COIL	▲										
L584	ELH5L7719	COIL	19	TKP0E10604	DOOR LID											
RESISTORS			20	ZTFN65008A	F.B.T.	▲										
R461	ERX2SJS1R2H	FUSIBLE	21	TBMOE0210	MODEL LABEL											
CAPACITORS			22	TBX8E101	POWER BUTTON											
MISCELLANEOUS COMPONENTS			INSTRUCTION BOOKS													
C109	ECJ2VB1H102K	S.M.CAP	50V	1nF	TPC0E42001B	CARTON										
C551	ECKW3D331JBR	CERAMIC	2kV	330pF	TPD0E0032	BOTTOM CUSHION										
C561	ECA1EM471B	ELECT	25V	470μF	TPD0E0033	TOP CUSHION										
C567	ECA1EM471B	ELECT	25V	470μF	TPD0E1007	SUB CUSHION										
C581	ECWF4684JBB	FILM	400V	680nF	INSTRUCTION BOOKS											
C1112	ECJ1VC1H121J	S.M.CAP	50V	120pF	TOB0E0011A1M	GERMAN										
DIFFERENCES FOR MODEL TX-32PS11D/B																
EXPLODED VIEW																
13	TKP0E11806	AV PANEL														
14	TKU8E00780	BACK COVER	▲													
15	W76EKX50X71	C.R.T.	▲													
16	TKY8E662-1	CABINET														
17	TNP8ED020AD	D.P.C.B.	▲													
18	TLK0E9011	DEGAUSS COIL	▲													
19	TKP0E10608	DOOR LID														
20	ZTFN65008A	F.B.T.	▲													
21	TBMOE0229	MODEL LABEL														
22	TBX8E102	POWER BUTTON														
MISCELLANEOUS COMPONENTS			INSTRUCTION BOOKS													
TPC0E42001B CARTON																
TPD0E0032 BOTTOM CUSHION																
TPD0E0033 TOP CUSHION																
TPD0E1007 SUB CUSHION																
INSTRUCTION BOOKS																
TQB0E0010A1M GERMAN																
TQB0E0010C1M ITALIAN																
TQB0E0010D1M FRENCH																
I.C.s																
IC1103	15E0/040/0E	4MEG EPROM M27W401-80B														
IC1104	1500/3AD	32K EAROM 24C32A10PI27														
DIODES																
D456	MTZJT-776.2B	DIODE														
COILS																
L584	ELH5L7719	COIL														
RESISTORS																
R461	ERX2SJS1R2H	FUSIBLE	2W	5%	1R2Ω											
CAPACITORS																
C109	ECJ2VB1H102K	S.M.CAP	50V	1nF	TPC0E42001B	CARTON										
C551	ECKW3D331JBR	CERAMIC	2kV	330pF	TPD0E0032	BOTTOM CUSHION										
C561	ECA1EM471B	ELECT	25V	470μF	TPD0E0033	TOP CUSHION										
C567	ECA1EM471B	ELECT	25V	470μF	TPD0E1007	SUB CUSHION										
C581	ECWF4684JBB	FILM	400V	680nF	INSTRUCTION BOOKS											
C1112	ECJ1VC1H121J	S.M.CAP	50V	120pF	TOB0E0011B1M	GERMAN										
DIFFERENCES FOR MODEL TX--32PS11P																
EXPLODED VIEW																
D456	MTZJT-776.2B	DIODE	13	TKP0E11805	AV PANEL											
L584	ELH5L7719	COIL	14	TKU8E00780	BACK COVER	▲										
RESISTORS			15	W76EKX50X71	C.R.T.	▲										
R461	ERX2SJS1R2H	FUSIBLE	2W	5%	1R2Ω											
CAPACITORS			16	TKY8E660-1	CABINET											
C109	ECJ2VB1H102K	S.M.CAP	50V	1nF	17	TNP8ED020AD	D.P.C.B.	▲								
C551	ECKW3D331JBR	CERAMIC	2kV	330pF	18	TLK0E9011	DEGAUSS COIL	▲								
C561	ECA1EM471B	ELECT	25V	470μF	19	TKP0E10604	DOOR LID									
C567	ECA1EM471B	ELECT	25V	470μF	20	ZTFN65008A	F.B.T.	▲								
C581	ECWF4684JBB	FILM	400V	680nF	21	TBMOE0210	MODEL LABEL									
C1112	ECJ1VC1H121J	S.M.CAP	50V	120pF	22	TBX8E101	POWER BUTTON									
MISCELLANEOUS COMPONENTS			INSTRUCTION BOOKS													
TPC0E42001B CARTON																
TPD0E0032 BOTTOM CUSHION																
TPD0E0033 TOP CUSHION																
TPD0E1007 SUB CUSHION																
INSTRUCTION BOOKS																
TOB0E0012M1M																
TQB0E0012N1M																
TQB0E0012P1M																
TQB0E0012Q1M																
TQB0E0012R1M																
TQB0E0012U1M																
I.C.s																
IC1103	15E0/040/0E	4MEG EPROM M27W401-80B														
IC1104	1500/3AD	32K EAROM 24C32A10PI27														
DIODES																
D456	MTZJT-776.2B	DIODE														
COILS																
L584	ELH5L7719	COIL														
RESISTORS																
R461	ERX2SJS1R2H	FUSIBLE	2W	5%	1R2Ω											
CAPACITORS																
C109	ECJ2VB1H102K	S.M.CAP	50V	1nF	TPC0E42001B	CARTON										
C551	ECKW3D331JBR	CERAMIC	2kV	330pF	TPD0E0032	BOTTOM CUSHION										
C561	ECA1EM471B	ELECT	25V	470μF	TPD0E0033	TOP CUSHION										
C567	ECA1EM471B	ELECT	25V	470μF	TPD0E1007	SUB CUSHION										
C581	ECWF4684JBB	FILM	400V	680nF	INSTRUCTION BOOKS											
C1112	ECJ1VC1H121J	S.M.CAP	50V	120pF	TOB0E0012M1M	GERMAN										
DIFFERENCES FOR MODEL TX-32PS11F																
EXPLODED VIEW																
I.C.s			13	TKP0E11805	AV PANEL											
IC1103	15E0/040/0E	4MEG EPROM M27W401-80B	14	TKU8E00780	BACK COVER	▲										
IC1104	1500/3AD	32K EAROM 24C32A10PI27	15	W76EKX50X71	C.R.T.	▲										
DIODES			16	TKY8E660-1	CABINET											
D456	MTZJT-776.2B	DIODE	17	TNP8ED020AD	D.P.C.B.	▲										
L584	ELH5L7719	COIL	18	TLK0E9011	DEGAUSS COIL	▲										
COILS			19	TKP0E10604	DOOR LID											
R461	ERX2SJS1R2H	FUSIBLE	20	ZTFN65008A	F.B.T.	▲										
RESISTORS			21	TBMOE0210	MODEL LABEL											
C456	ERX2VB1H102K	S.M.CAP	50V	1nF	22	TBX8E101	POWER BUTTON									
C551	ECKW3D331JBR	CERAMIC	2kV	330pF	INSTRUCTION BOOKS											
C561	ECA1EM471B	ELECT	25V	470μF	TOB0E0012N1M	ROMANIAN										
C567	ECA1EM471B	ELECT	25V	470μF	TQB0E0012Q1M	POLISH										
C581	ECWF4684JBB	FILM	400V	680nF	TQB0E0012R1M	HUNGARIAN										
C1112	ECJ1VC1H121J	S.M.CAP	50V	120pF	TQB0E0012U1M</td											

NOTES

DIFFERENCE LIST			
POSITION	M O D E L		
	28'	29'	32'
T51	ZTFN65007A	ZTFN65007A	ZTFN65008A
D456	MTZJT-776.2B	MTZJT-775.6C	MTZJT-776.2B
L584	ELH5L7727	ELH5L7727	ELH5L7719
R461	ERX2SJ51R2H	ERX2SJ51R0H	ERX2SJ51R2H
C109	ECKJVB1H472K	ECKJVB1H102K	
C551	ECKW3D221JBR	ECKW3D471JBR	ECKW3D331JBR
C561	ECA1EM471B	ECA1EM222E	ECA1EM471B
C567	ECA1EM471B	ECA1EM222E	ECA1EM471B
C581	ECWF4624JBB	ECWF4684JBB	ECWF4684JBB

SCHEMATIC DIAGRAMS FOR MODELS TX-32PS11D, TX-32PS11F, TX-32PS11P, TX-32PS11D/B TX-29PS11D, TX-29PS11F, TX-29PS11P, TX-29PS11D/B TX-28PS11D, TX-28PS11F (GP2 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturers' specified parts.

NOTE

1. RESISTOR

All resistors are carbon $\frac{1}{4}W$ resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) ($k=1,000$, $M=1,000,000$)

2. CAPACITORS

All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μF unless otherwise stated.

3. COIL

Unit of inductance is μH , unless otherwise stated.

4. TEST POINT

 Test Point Position

5. EARTH SYMBOL

 Chassis Earth (Cold)
 Line Earth (Hot)

6. VOLTAGE MEASUREMENT

Voltage is measured by a d.c. voltmeter.
Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

7.

 Indicates the Video signal path
 Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

- Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- Do not short circuit the hot and cold circuits as electrical components may be damaged.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.

NOTE

- The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

TNP8ED020
D-BOARD △

32°
ZTFN65006A
MTJU-T-776_2B
ELHSL7719
ERKX25351R2H
ECJ2V91H102K
ECJ2V91H102J
ECM1EW4716
ECM1EW4716
ECWF4684JB6

SERVICE

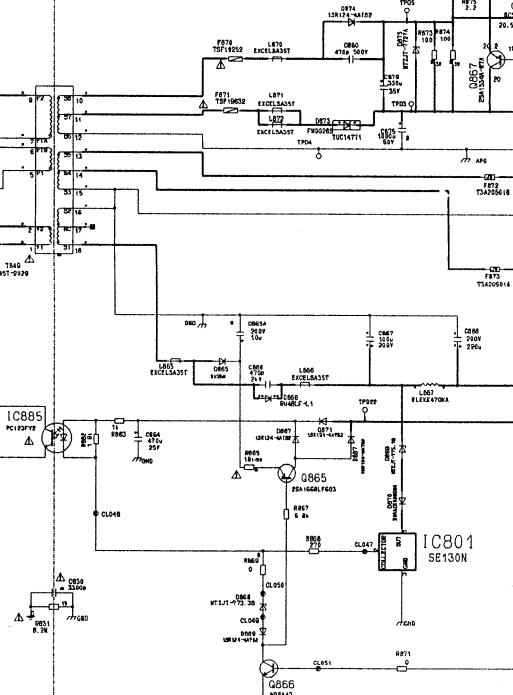
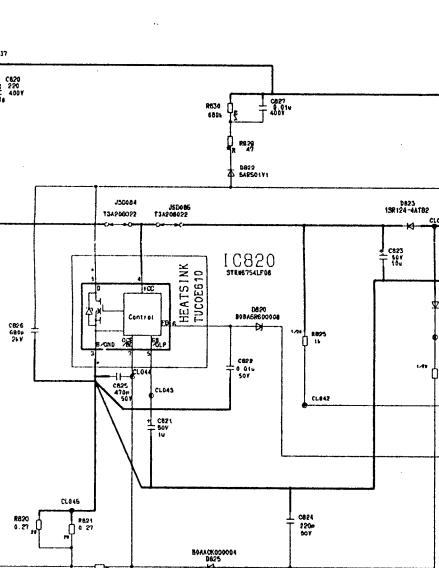
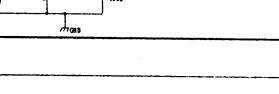
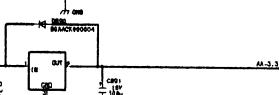
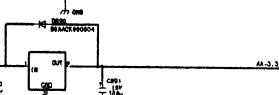
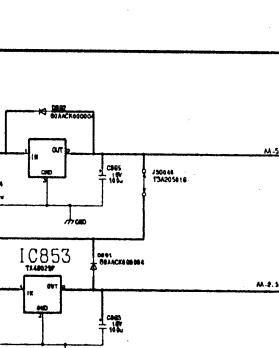
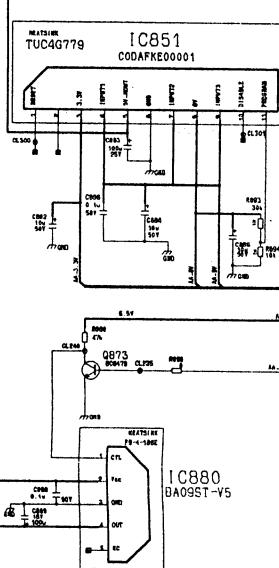
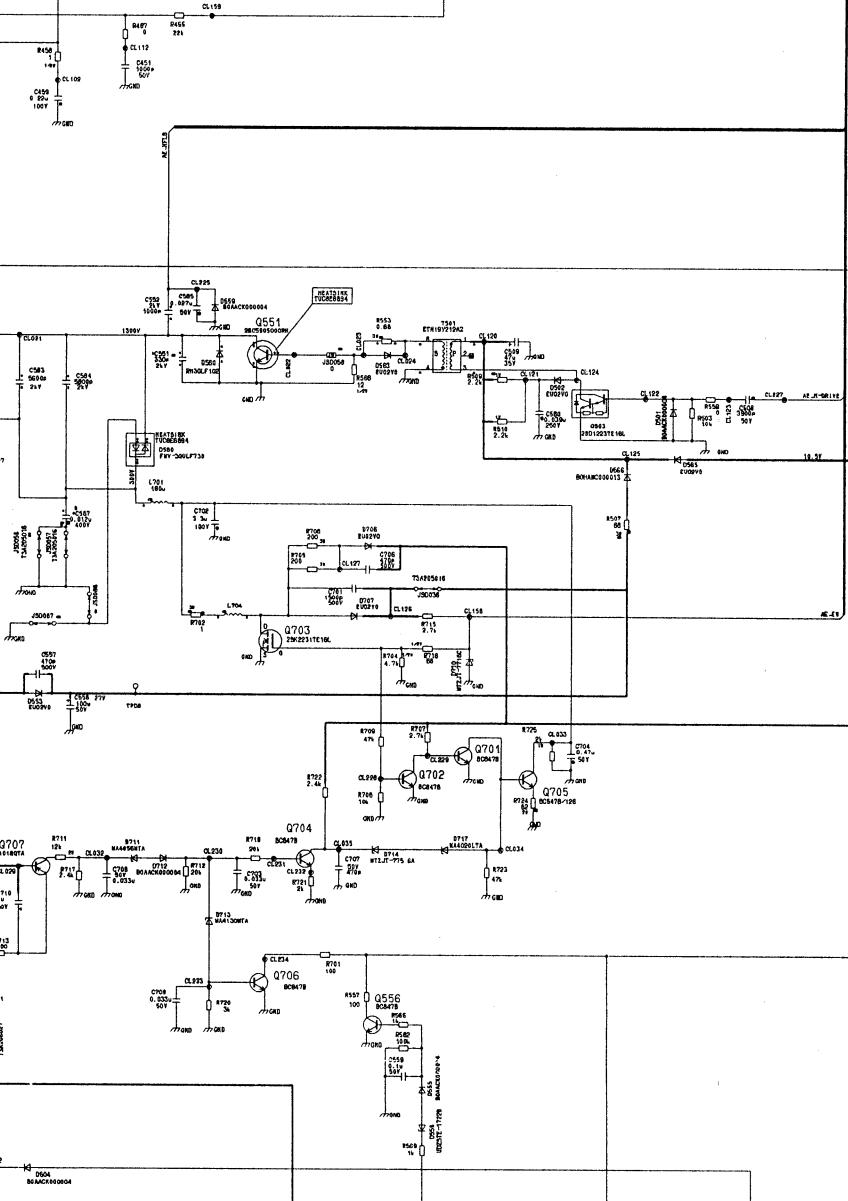
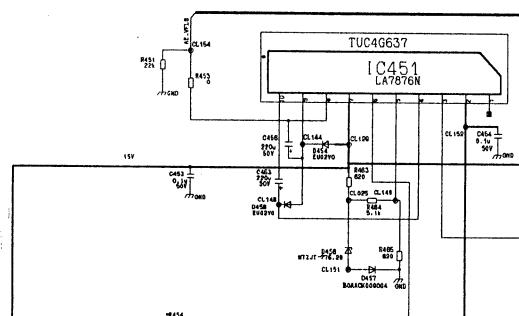
VERT DY

HORIZONTAL DY

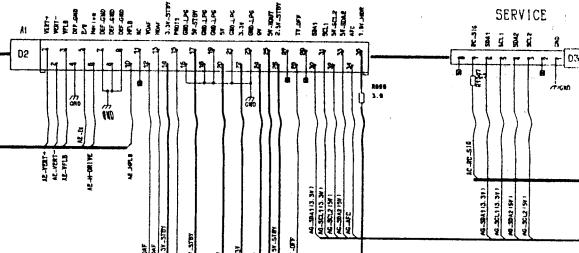
L3

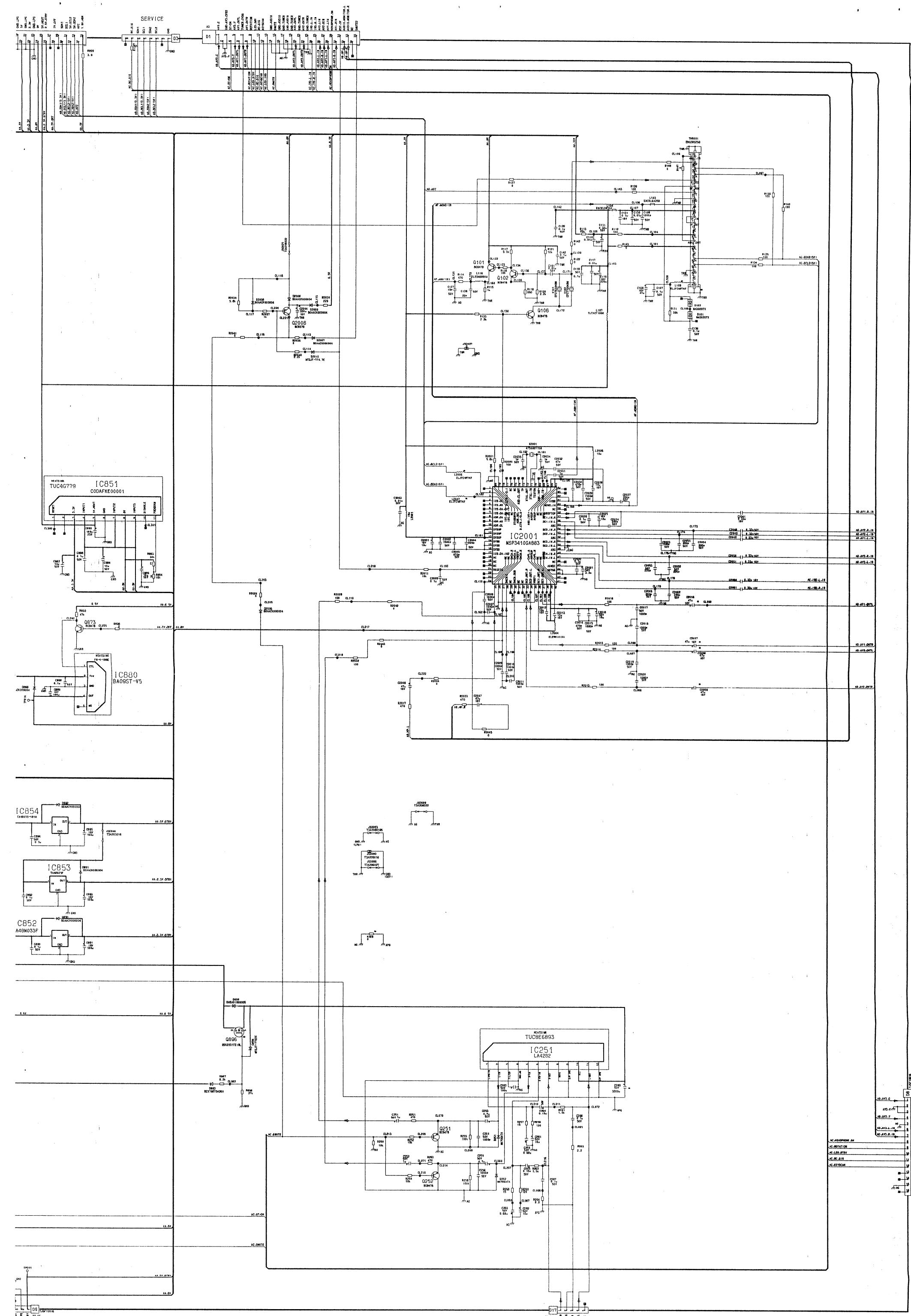
COLD

HOT

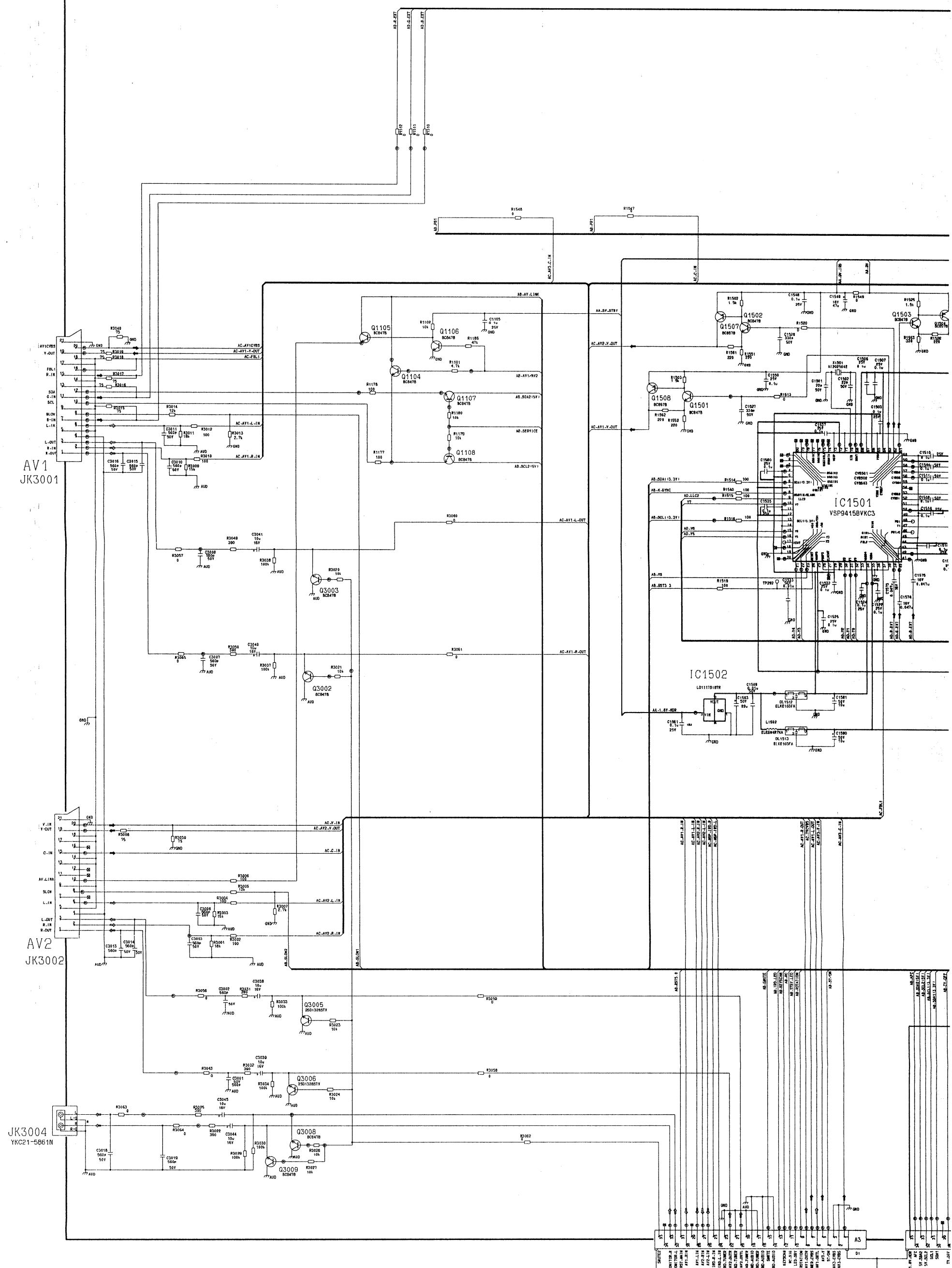


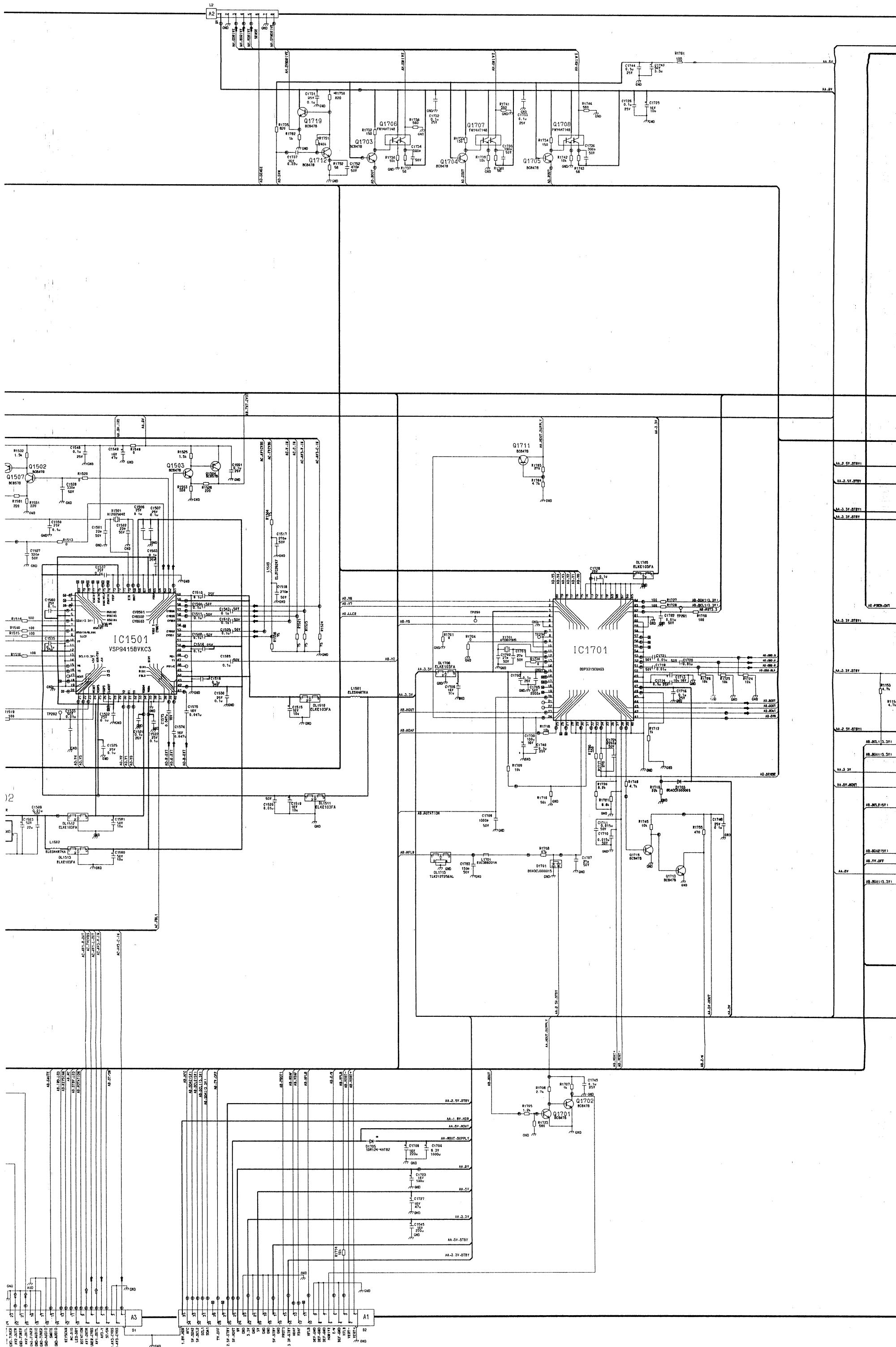
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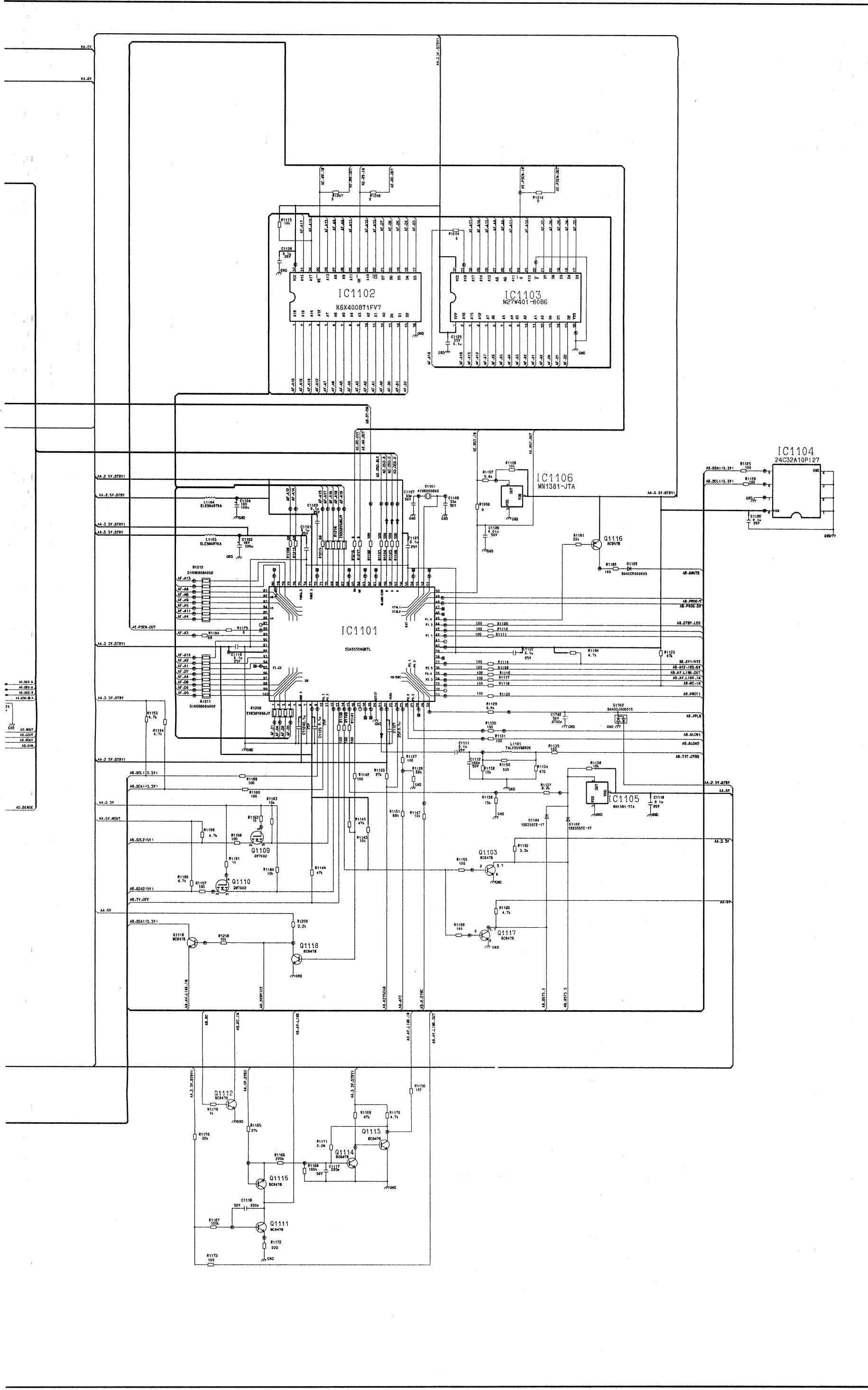




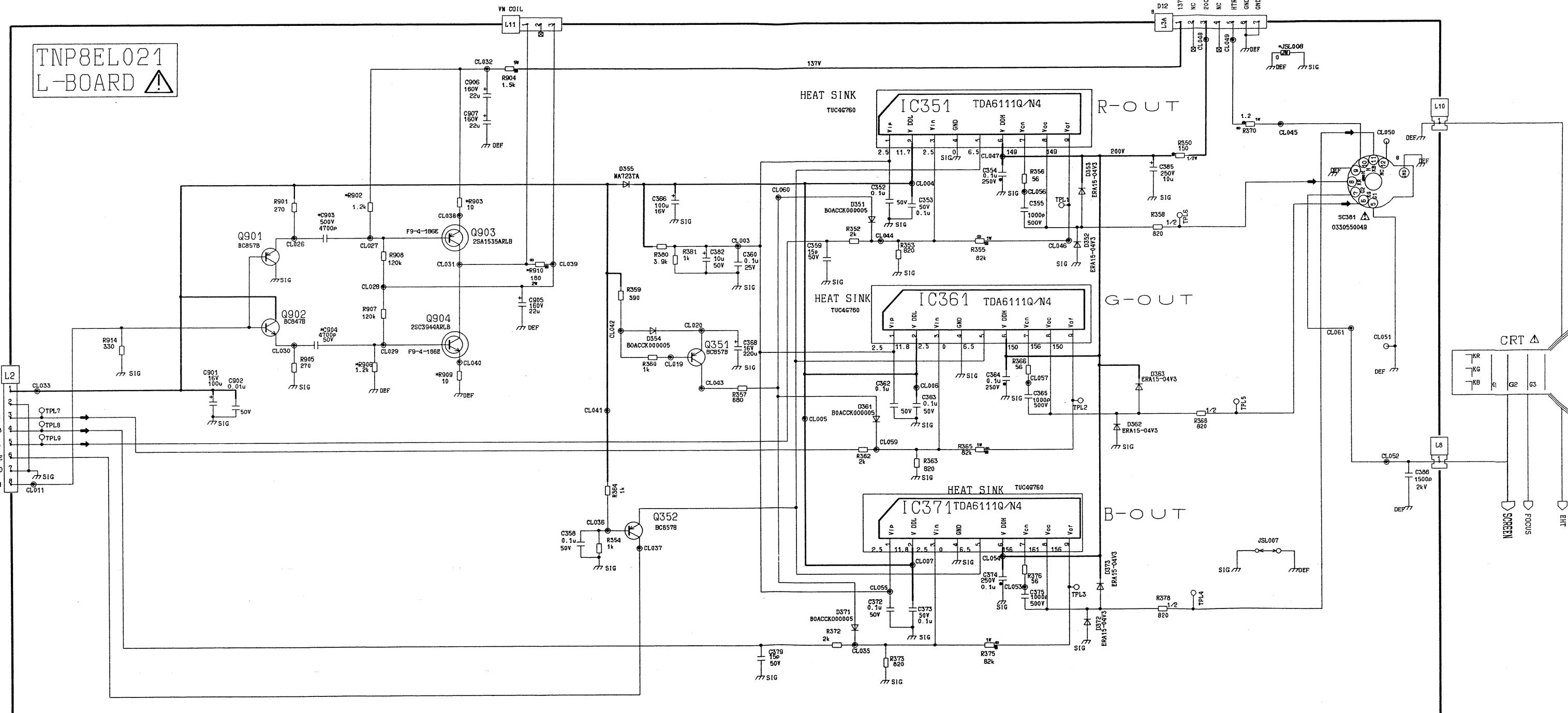
TNP8EA021
A-BOARD △

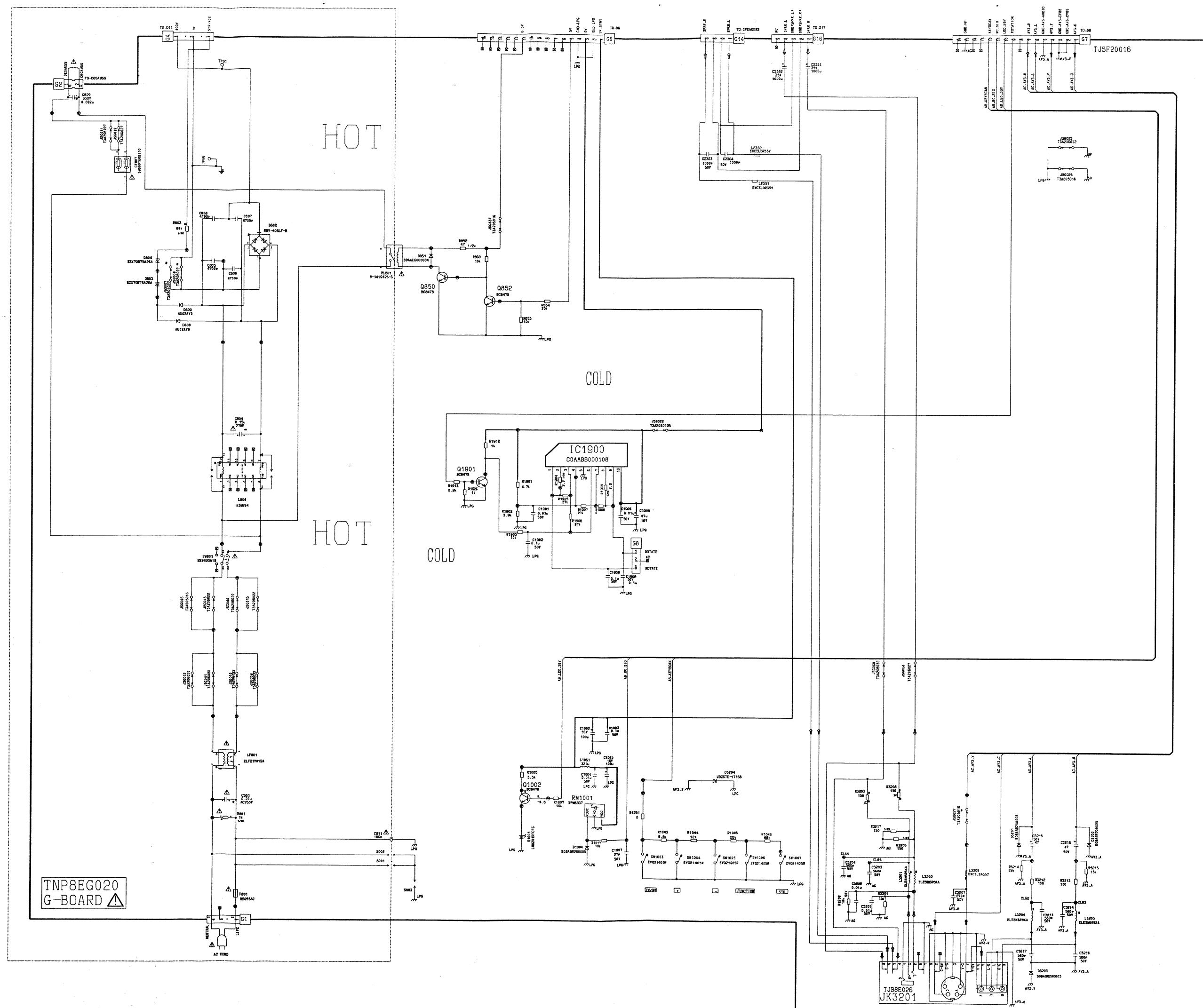






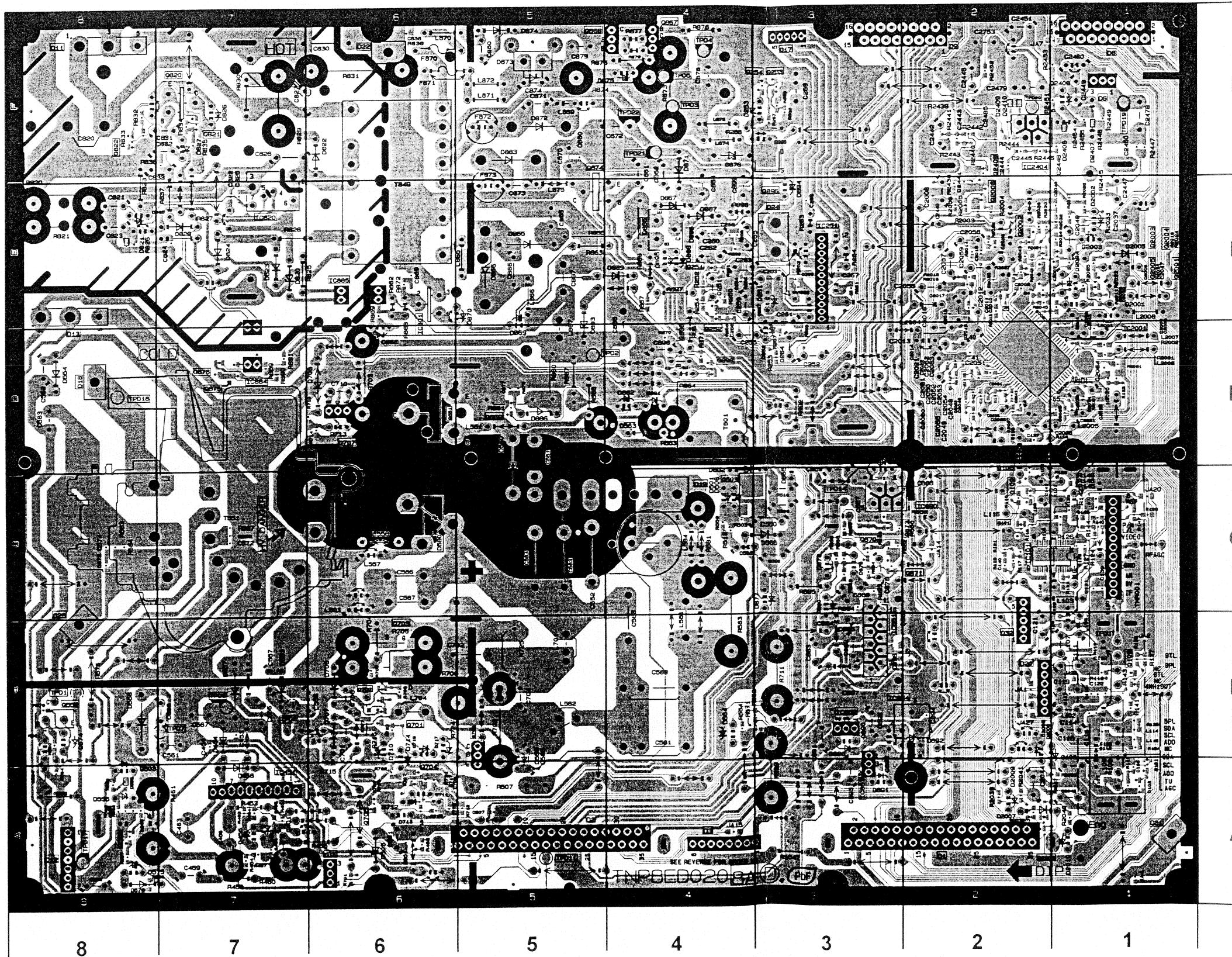
TNP8EL021
L-BOARD 





CONDUCTOR VIEWS FOR MODELS
 TX-32PS11D, TX-32PS11F, TX-32PS11P, TX-32PS11D/B
 TX-29PS11D, TX-29PS11F, TX-29PS11P, TX-29PS11D/B
 TX-28PS11D, TX-28PS11F

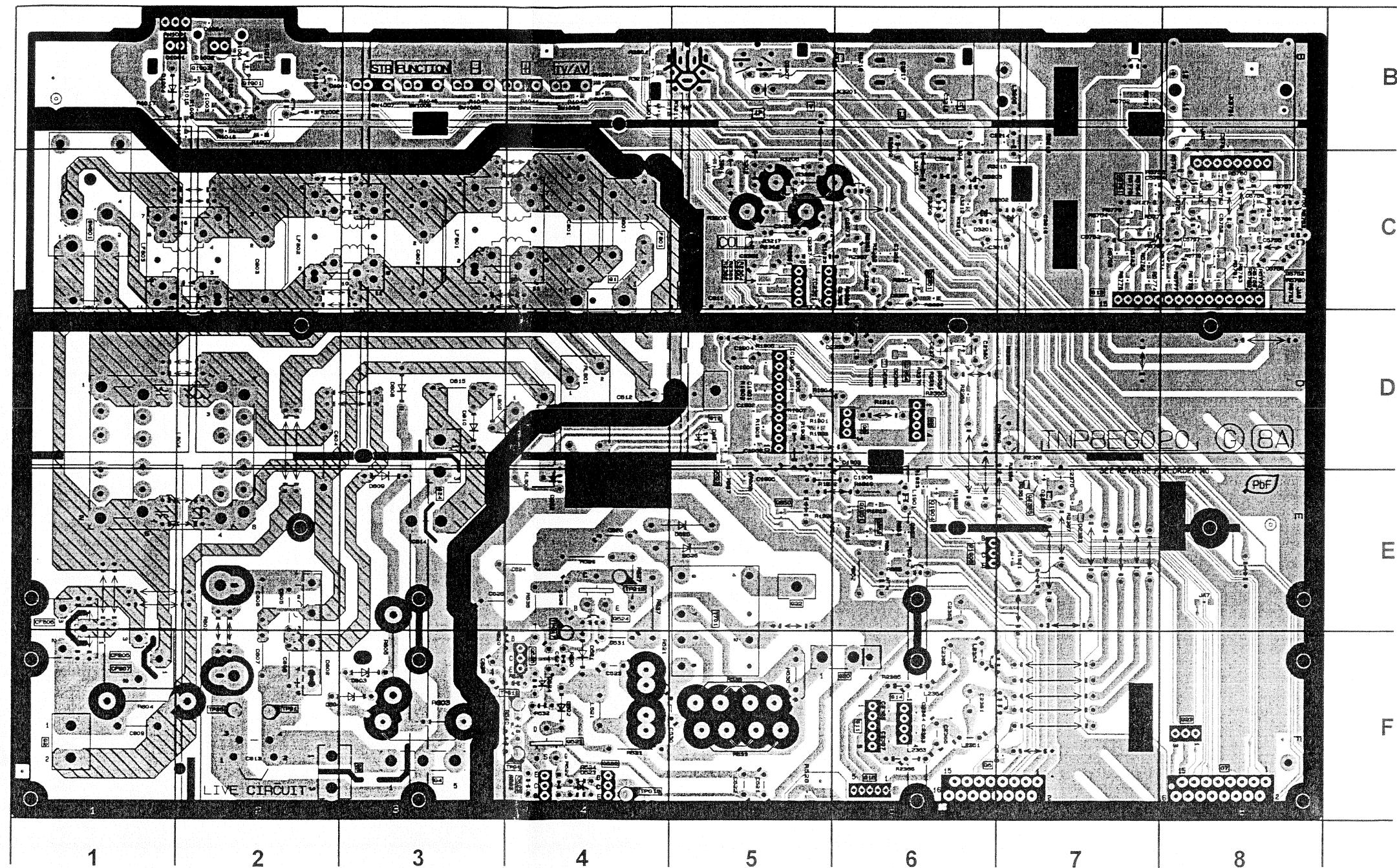
D - BOARD TNP8ED020



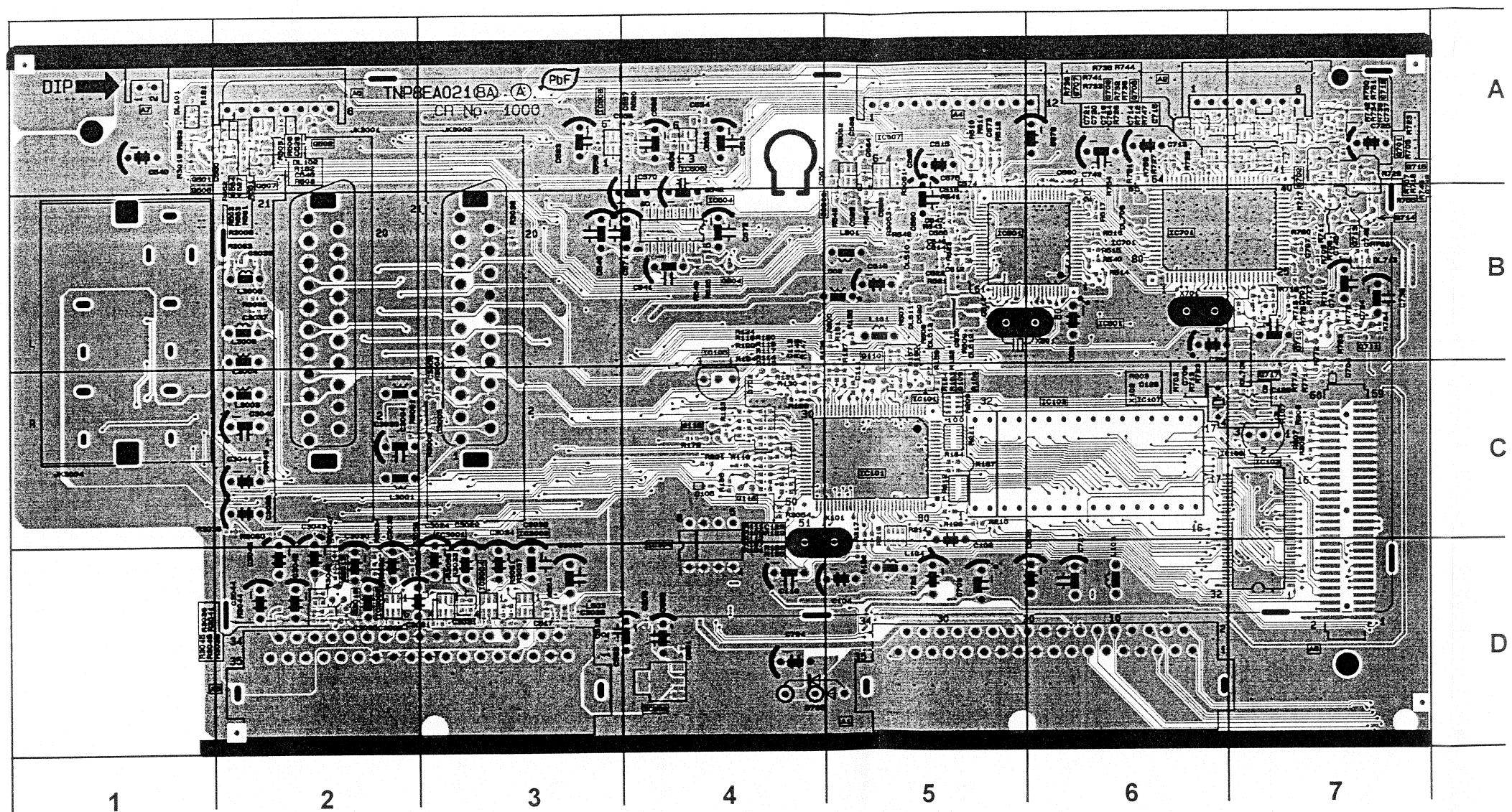
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Q101	C2	D503	A8	D883	F5
Q102	C2	D504	B4	D887	E4
Q106	C2	D505	A6	D888	C2
Q2006	A2	D553	B7	D889	E4
Q251	E4	D554	D8	D890	B3
Q252	E4	D555	A8	D891	A3
Q503	C4	D556	A8	D892	B2
Q551	D6	D557	B7	D893	D5
Q552	B8	D558	B8	D894	E3
Q556	A8	D559	B5	D895	E4
Q701	B6	D560	D5	D896	E4
Q702	B6	D563	D4	D898	F3
Q703	B6	D565	C4		
Q704	A6	D566	C4	IC'S	
Q705	B5	D575	A8	IC2001	D2
Q706	A6	D576	A8	IC251	E3
Q707	D6	D580	C6	IC451	A7
Q865	E4	D706	B6	IC801	E6
Q866	D4	D707	B6	IC820	E7
Q867	F4	D710	B6	IC851	B3
Q868	F4	D711	A6	IC852	B3
Q870	C3	D712	A6	IC853	A3
Q871	C3	D713	A6	IC854	B2
Q873	C3	D714	B6	IC880	C3
Q874	E5	D717	B6	IC885	E6
Q896	F3	D820	E7		
Q898	D4	D822	F6		
	D823	E7	TP'S		
	DIODES	D824	E7	TPD1	B8
D101	A1	D825	E8	TPD11	A5
D102	A1	D865	E5	TPD14	C3
D2005	E1	D866	E5	TPD17	A8
D2006	B2	D867	E4	TPD18	D8
D2007	A2	D868	D6	TPD19	F1
D2008	B1	D869	D5	TPD2	D5
D2009	A2	D870	E5	TPD20	F2
D2010	A1	D871	F4	TPD21	F4
D251	E3	D872	F5	TPD22	F4
D252	D3	D873	F5	TPD3	F4
D454	B7	D874	F5	TPD4	F4
D456	A7	D875	F4	TPD5	F4
D457	A7	D877	C3	TPD6	B7
D458	A7	D878	C3	TPD7	B7
D501	C4	D880	C3	TPD8	B7

G - BOARD TNP8EG020

TRAN'S	D808	D3
Q1002	B2	D809 E3
Q1901	E6	D851 D5
Q850	E5	
Q852	E6	IC'S
		IC1900 D5
DIODE		RM1001B1
D1001	B1	
D1004	B1	TP'S
D3201	C6	TPG1 F2
D3202	C7	TPG11 F4
D3203	C6	TPG16 E4
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D802	E2	TPG18 F4
D803	F3	TPG4 F4
D804	F3	TPG6 F2



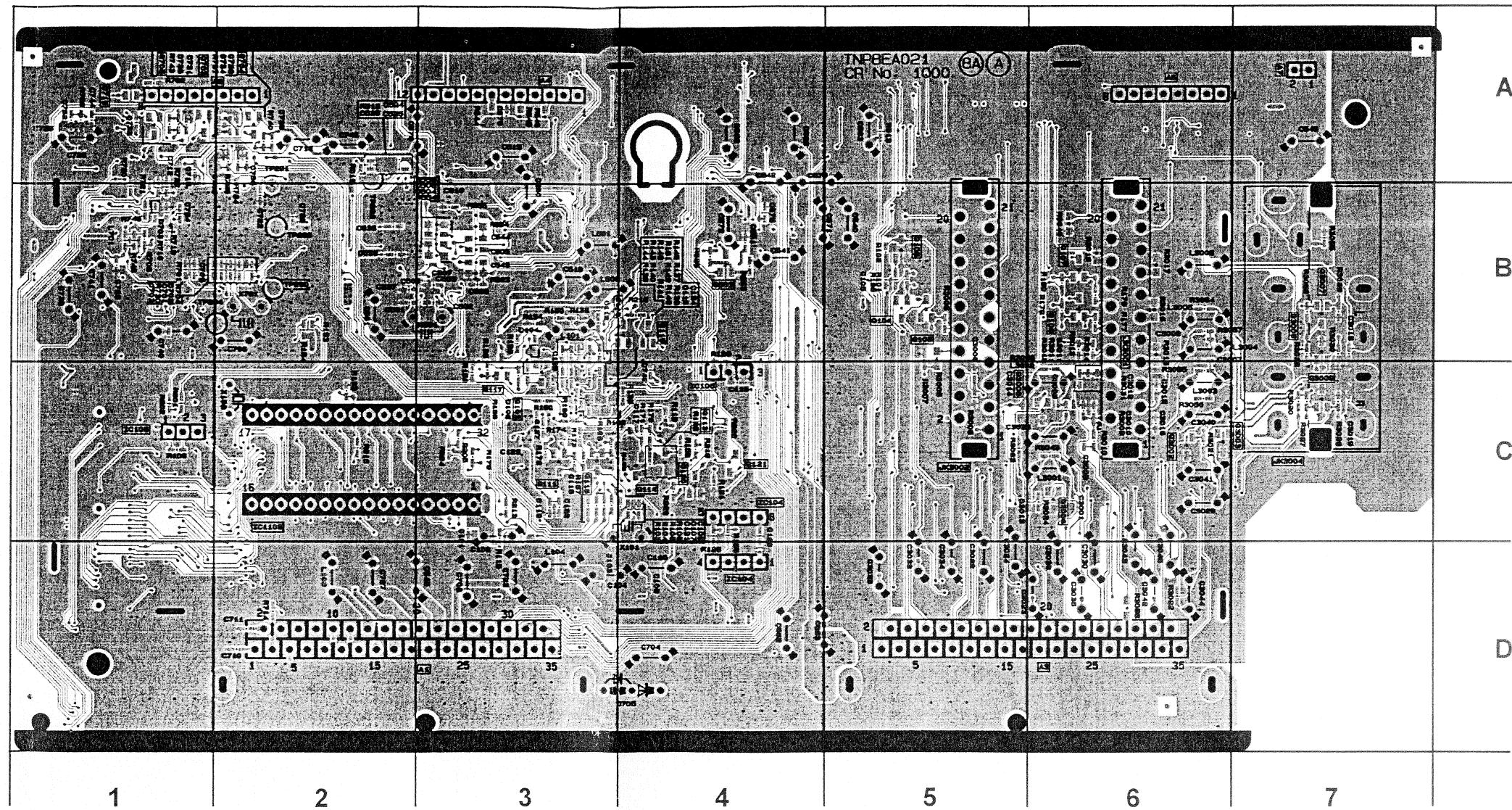
A - BOARD TNP8EA021 - TOP



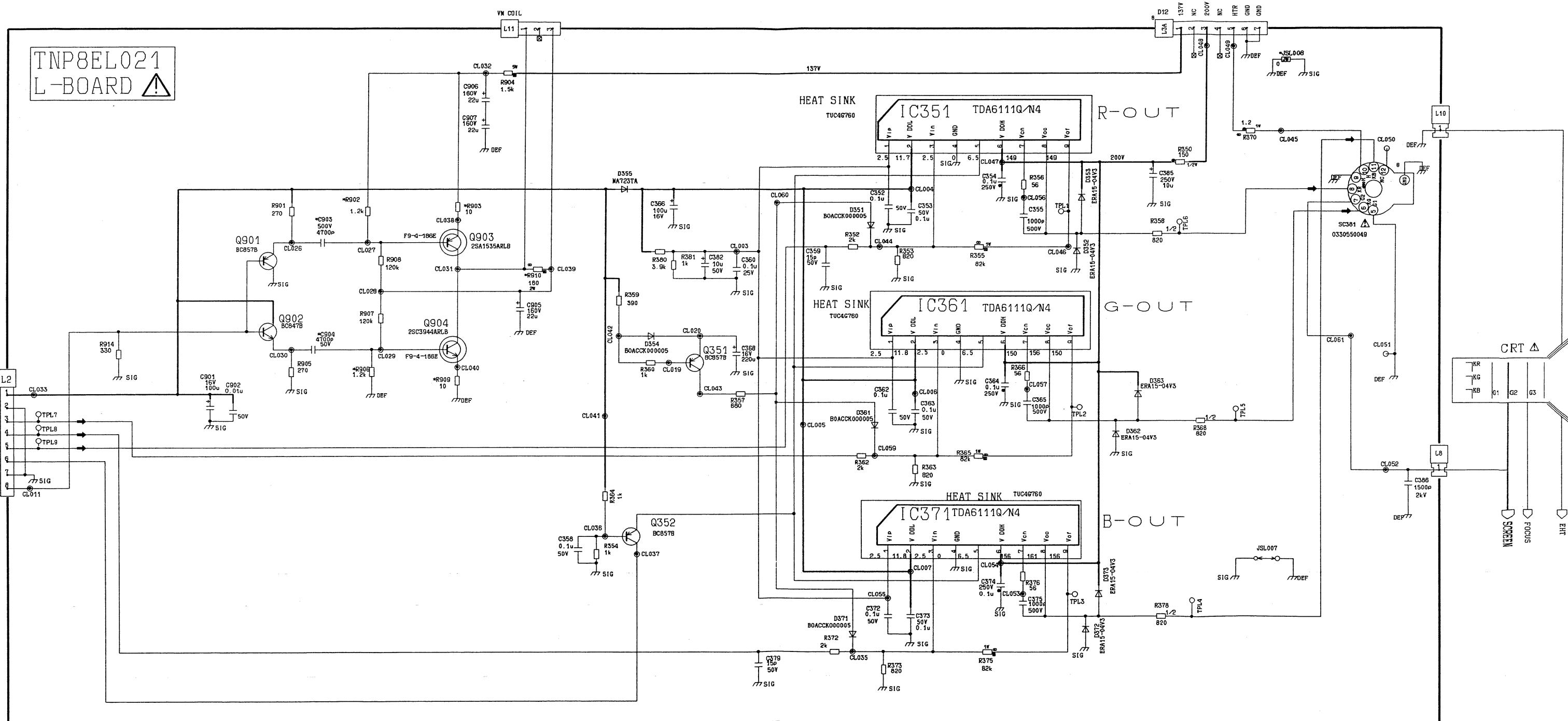
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Q1109 C5	D1105 C4
Q1110 C5	D1701 B7
Q1112 C4	D1702 C4
Q1116 C4	D1705 D4
Q1501 A1	
Q1502 A2	IC'S
Q1504 B4	IC1101 C5
Q1507 A2	IC1102 C7
Q1508 A1	IC1103 C6
Q1701 A7	IC1104 D4
Q1702 A7	IC1105 C4
Q1706 A7	IC1106 C7
Q1707 A6	IC1501 B6
Q1708 A7	IC1502 D4
Q1711 C7	IC1701 B6
Q1712 A7	
Q1713 B7	
Q1715 A7	

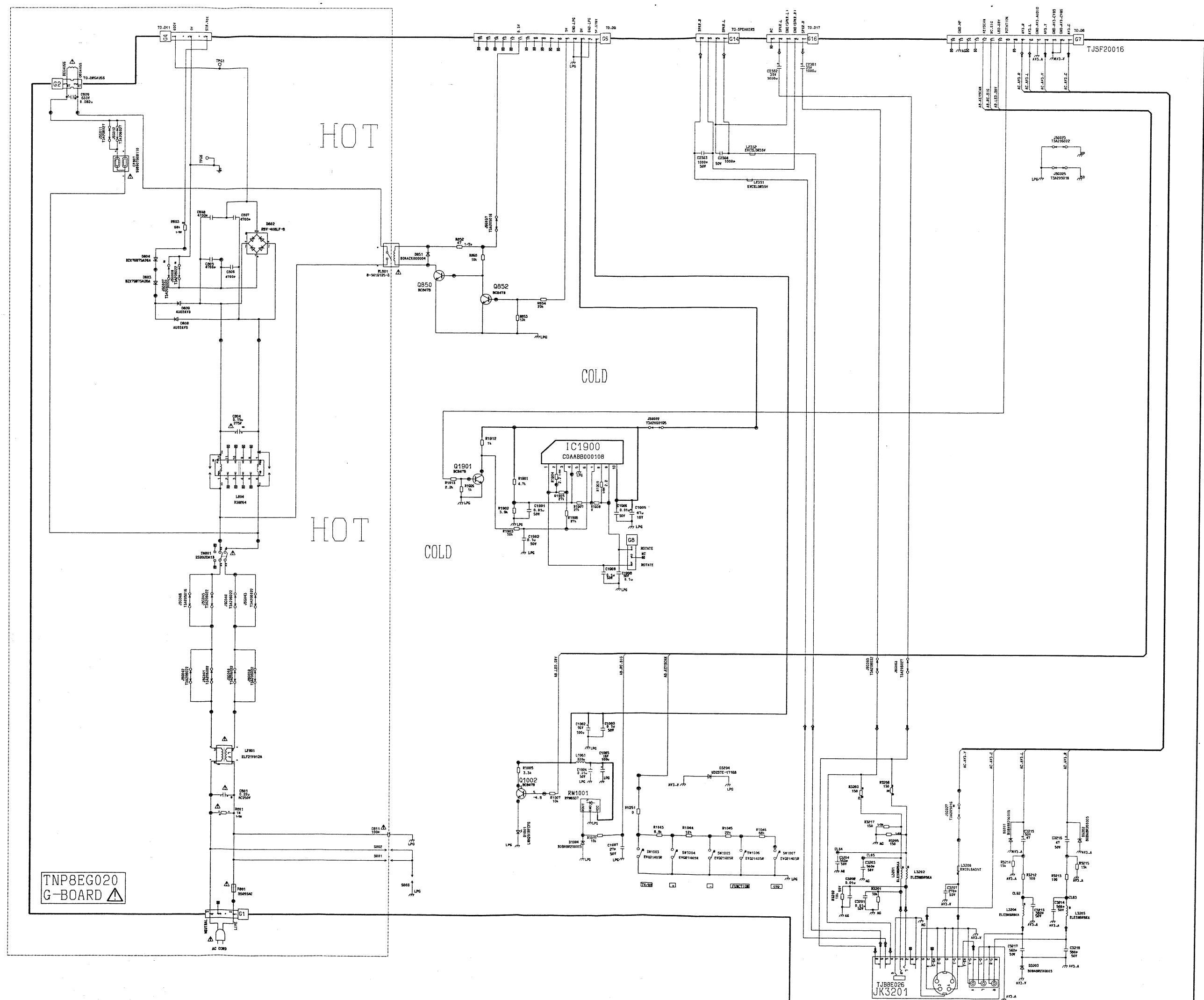
A - BOARD TNP8EA021 - BOTTOM

TRAN'S	
Q1103	Q1703 A1
C3	Q1704 A2
Q1104	B5 Q1705 A1
B5	Q1719 A1
Q1105	B5 Q3002 C6
B5	Q3003 C7
Q1106	B6 Q3005 C6
B6	Q3006 C6
Q1107	C3 Q3008 B7
C3	Q3009 C7
Q1108	C4 Q1111 C3
C4	Q1113 C4
Q1114	Q1115 C3
C4	Q1117 C3 DIODE
Q1118	B4 D1102 C3
B4	D1104 B3
Q1119	B4 D1703 B1
Q1503	B4 D1703 B1



TNP8EL021
L-BOARD 





TRAN'S	DIODE	IC'S	TP'S
Q351 D4	D351 D3	IC351 D4	TPL1 D2
Q352 C1	D354 D4	IC361 C4	TPL2 C4
Q901 B4	D355 D1	IC371 C1	TPL3 C1
Q902 B4	D361 C3		TPL4 C2
Q903 A4	D371 D2		TPL5 B3
Q904 B4			TPL6 C3
			TPL7 C1
			TPL8 C1
			TPL9 C1

